# Virus Protease

Viral proteases are enzymes encoded by the genetic material (DNA or RNA) of viral pathogens. Viral proteases catalyze the cleavage of specific peptide bonds in viral polyprotein precursors or in cellular proteins. Viral proteases may use different catalytic mechanisms involving either serine, cysteine or aspartic acid residues to attack the scissile peptide bond. Selective recognition of these sequence patterns by a complementary substrate binding site of the enzyme ensures a high degree of specific recognition and cleavage.

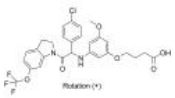
Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), is the cause of the respiratory illness coronavirus disease 2019 (COVID-19). Initial spike protein priming by transmembrane protease, serine 2 (TMPRSS2) is essential for entry of SARS-CoV-2. After a SARS-CoV-2 virion attaches to a target cell, the cell's protease TMPRSS2 cuts open the spike protein of the virus, exposing a fusion peptide.

## Virus Protease Inhibitors

### (+)-JNJ-A07

Cat. No.: HY-139602

(+)-JNJ-A07 is a highly potent, orally active pan-serotype dengue virus inhibitor targeting the NS3-NS4B interaction. (+)-JNJ-A07 exerts nanomolar to picomolar activity against a panel of 21 clinical isolates.

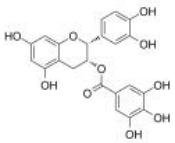


Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

### (-)-Epicatechin gallate

(Epicatechin gallate; ECG; (-)-Epicatechin 3-O-gallate) Cat. No.: HY-N0002

(-)-Epicatechin gallate (Epicatechin gallate) inhibits cyclooxygenase-1 (**COX-1**) with an $IC_{50}$ of 7.5 μM.

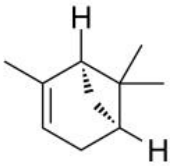


Purity: 98.57%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

### (-)-α-Pinene

Cat. No.: HY-N0549

(-)-α-Pinene is a monoterpene and shows sleep enhancing property through a direct binding to GABAA-benzodiazepine (BZD) receptors by acting as a partial modulator at the BZD binding site.

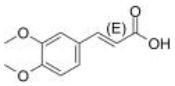


Purity: 99.63%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 100 mg, 1 g, 5 g

### (E)-3,4-Dimethoxycinnamic acid

((E)-O-Methylferulic acid) Cat. No.: HY-N1778A

(E)-3,4-Dimethoxycinnamic acid is the less active isomer of 3,4-Dimethoxycinnamic acid. 3,4-Dimethoxycinnamic acid exerts anti-apoptotic effects on L-02 cells via the ROS-mediated signaling pathway. Anti-apoptotic effects.

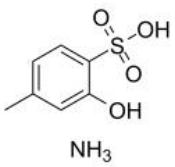


Purity: 99.90%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 500 mg

### 2-Hydroxy-4-methylbenzenesulphonic acid ammonium

Cat. No.: HY-136574

2-Hydroxy-4-methylbenzenesulphonic acid ammonium is an impurity of Policresulen. Policresulen is a potent NS2B/NS3 protease inhibitor with an $IC_{50}$ of 0.48 μg/mL. Policresulen effectively inhibits the replication of DENV2 virus in BHK-21 cells with an $IC_{50}$ of 4.99 μg/mL.

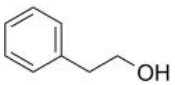


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

### 2-Phenylethanol

(Phenylethyl alcohol; Phenethyl alcohol; Benzyl carbinol) Cat. No.: HY-B1290

2-Phenylethanol (Phenethyl alcohol), extracted from rose, carnation, hyacinth, Aleppo pine, orange blossom and other organisms, is a colourless liquid. It has a pleasant floral odor and also an autoantibiotic produced by the fungus Candida albicans.

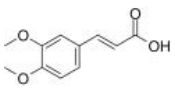


Purity: 99.64%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 500 mg, 1 g

### 3,4-Dimethoxycinnamic acid

(O-Methylferulic acid) Cat. No.: HY-N1778

3,4-Dimethoxycinnamic acid (O-Methylferulic acid) is a monomer extracted and purified from Securidaca inappendiculata Hassk. 3,4-Dimethoxycinnamic acid exerts anti-apoptotic effects on L-02 cells via the ROS-mediated signaling pathway. Anti-apoptotic effects.

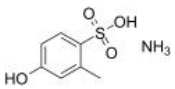


Purity: 99.54%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 100 mg

### 4-Hydroxy-2-methylbenzenesulfonic acid ammonium

Cat. No.: HY-136575

4-Hydroxy-2-methylbenzenesulfonic acid ammonium is an impurity of Policresulen. Policresulen is a potent NS2B/NS3 protease inhibitor with an $IC_{50}$ of 0.48 μg/mL. Policresulen effectively inhibits the replication of DENV2 virus in BHK-21 cells with an $IC_{50}$ of 4.99 μg/mL.

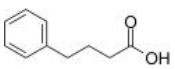


Purity: >98%
Clinical Data: No Development Reported
Size: 50 mg, 100 mg

### 4-Phenylbutyric acid

(4-PBA; Benzenebutyric acid) Cat. No.: HY-A0281

4-Phenylbutyric acid (4-PBA) is an inhibitor of **HDAC** and endoplasmic reticulum **(ER)** stress, used in cancer and infection research.

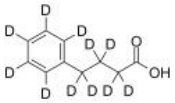


Purity: 99.98%
Clinical Data: Launched
Size: 500 mg

### 4-Phenylbutyric acid-d11

(4-PBA-d11; Benzenebutyric acid-d11) Cat. No.: HY-A0281S

4-Phenylbutyric acid-d11 (4-PBA-d11) is the deuterium labeled 4-Phenylbutyric acid. 4-Phenylbutyric acid (4-PBA) is an inhibitor of **HDAC** and endoplasmic reticulum **(ER)** stress, used in cancer and infection research.



Purity: >98%
Clinical Data: No Development Reported
Size: 10 mg, 100 mg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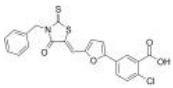
## 4E2RCat

Cat. No.: HY-100733

4E2RCat is an inhibitor of **eIF4E-eIF4G** interaction with an **$IC_{50}$** of 13.5 μM.

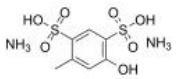


Purity: ≥98.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

## 5-Hydroxytoluene-2,4-disulphonic acid diammonium

Cat. No.: HY-136573

5-Hydroxytoluene-2,4-disulphonic acid diammonium is an impurity of Policresulen. Policresulen is a potent NS2B/NS3 protease inhibitor with an $IC_{50}$ of 0.48 μg/mL. Policresulen effectively inhibits the replication of DENV2 virus in BHK-21 cells with an $IC_{50}$ of 4.99 μg/mL.

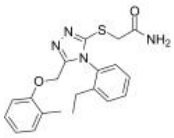


Purity: >98%
Clinical Data: No Development Reported
Size: 50 mg, 100 mg

## A2ti-1

Cat. No.: HY-136465

A2ti-1 is a selective and high-affinity **annexin A2/S100A10 heterotetramer (A2t)** inhibitor with an **$IC_{50}$** of 24 μM. A2ti-1 specifically disrupts the protein-protein interaction (PPI) between A2 and S100A10. A2ti-1 prevents human papillomavirus type 16 (**HPV16**) infection.

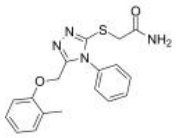


Purity: 99.83%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

## A2ti-2

Cat. No.: HY-136466

A2ti-2 is a selective and low-affinity **annexin A2/S100A10 heterotetramer (A2t)** inhibitor with an **$IC_{50}$** of 230 μM. A2ti-2 specifically disrupts the protein-protein interaction (PPI) between A2 and S100A10. A2ti-2 prevents human papillomavirus type 16 (**HPV16**) infection.



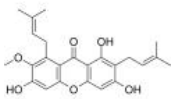
Purity: 99.85%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

## alpha-Mangostin

(α-Mangostin)

Cat. No.: HY-N0328

alpha-Mangostin (α-Mangostin) is a dietary xanthone with broad biological activities, such as antioxidant, anti-allergic, antiviral, antibacterial, anti-inflammatory and anticancer effects. It is an inhibitor of mutant IDH1 (**IDH1-R132H**) with a **$K_i$** of 2.85 μM.



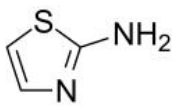
Purity: 99.64%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 25 mg, 50 mg, 100 mg

## Aminothiazole

(2-Aminothiazole; 2-Thiazolylamine)

Cat. No.: HY-12396

Aminothiazole (2-Aminothiazole), a typical heterocyclic amine, is a precursor for the synthesis of biologically active molecules including sulfur agents, biocides, fungicides, antibiotics, dyes and chemical reaction accelerators.



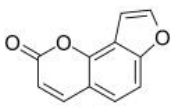
Purity: ≥98.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 500 mg, 5 g, 10 g

## Angelicin

(Isopsoralen)

Cat. No.: HY-N0763

Angelicin, a furocoumarin naturally occurring tricyclic aromatic compound, structurally related to psoralens, is reported to have anti-cancer, antiviral, anti-inflammatory activity.

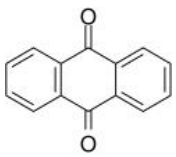


Purity: 99.86%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

## Anthraquinone

Cat. No.: HY-N0354

Anthraquinone is used as a precursor for dye formation.

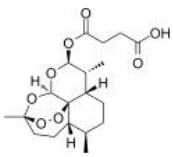


Purity: 98.14%
Clinical Data: No Development Reported
Size: 100 mg

## Artesunate

Cat. No.: HY-N0193

Artesunate is an inhibitor of both **STAT-3** and **exported protein 1** (**EXP1**).

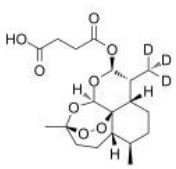


Purity: ≥98.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 50 mg, 100 mg

## Artesunate-d3

Cat. No.: HY-N0193S

Artesunate-d3 is the deuterium labeled Artesunate. Artesunate is an inhibitor of both **STAT-3** and **exported protein 1** (**EXP1**).

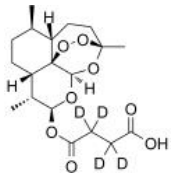


Purity: >98%
Clinical Data: No Development Reported
Size: 10 mg

## Artesunate-d4

Cat. No.: HY-N0193S1

Artesunate-d4 is deuterium labeled Artesunate. Artesunate is an inhibitor of both STAT-3 and exported protein 1 (EXP1).



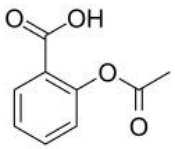
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

## Aspirin

(Acetylsalicylic Acid; ASA)

Cat. No.: HY-14654

Aspirin is a non-selective and irreversible inhibitor of **COX-1** and **COX-2** with $IC_{50}$s of 5 and 210 μg/mL.



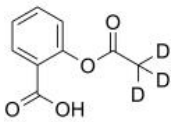
Purity: 99.92%
Clinical Data: Launched
Size: 10 mM × 1 mL, 500 mg, 1 g, 5 g

## Aspirin-d3

(Acetylsalicylic Acid-d3; ASA-d3)

Cat. No.: HY-14654S

Aspirin-d3 (Acetylsalicylic Acid-d3) is the deuterium labeled Aspirin. Aspirin is a non-selective and irreversible inhibitor of **COX-1** and **COX-2** with $IC_{50}$s of 5 and 210 μg/mL.



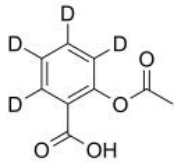
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg

## Aspirin-d4

(Acetylsalicylic Acid-d4; ASA-d4)

Cat. No.: HY-14654S1

Aspirin-d4 (Acetylsalicylic Acid-d4) is the deuterium labeled Aspirin. Aspirin is a non-selective and irreversible inhibitor of **COX-1** and **COX-2** with $IC_{50}$s of 5 and 210 μg/mL.

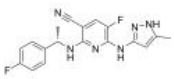


Purity: 98.85%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

## AZ960

Cat. No.: HY-10411

AZ960 is a potent and specific inhibitor of the **JAK2** kinase with a $K_i$ of 0.45 nM.



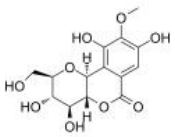
Purity: 97.15%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

## Bergenin

(Cuscutin)

Cat. No.: HY-N0017

Bergenin is a cytoprotective and antioxidative polyphenol found in many medicinal plants. Bergenin has a wide spectrum activities such as hepatoprotective, antiinflammatory, immunomodulatory, antitumor, antiviral, and antifungal properties.



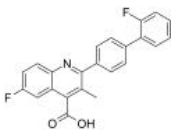
Purity: 99.63%
Clinical Data: Launched
Size: 10 mM × 1 mL, 2 mg, 5 mg, 10 mg, 50 mg

## Brequinar

(DUP785; NSC 368390)

Cat. No.: HY-108325

Brequinar (DUP785) is a potent inhibitor of **dihydroorotate dehydrogenase (DHODH)** with an $IC_{50}$ of 5.2 nM for **human DHODH**. Brequinar has potent activities against a broad spectrum of viruses. Brequinar also has an anti-**SARS2** activity.



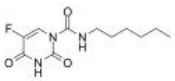
Purity: 99.75%
Clinical Data: Phase 2
Size: 10 mM × 1 mL, 5 mg, 10 mg

## Carmofur

(HCFU)

Cat. No.: HY-B0182

Carmofur (HCFU), a derivative of 5-Fluorouracil, is an antineoplastic agent. Carmofur is an inhibitor of **acid ceramidase** with an $IC_{50}$ of 79 nM for the rat enzyme. Carmofur inhibits the SARS-CoV-2 main protease (Mpro).



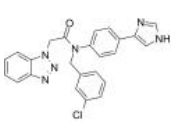
Purity: 99.95%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

## CCF0058981

(CCF981)

Cat. No.: HY-132306

CCF0058981 (CCF981), 3-chlorophenyl analogue, is a noncovalent **SARS-CoV-2 $3CL^{pro}$ (SC2)** inhibitor with an $IC_{50}$ of 68 nM. CCF0058981 inhibits **SC1 (SARS-CoV-1 $3CL^{pro}$)** with an $IC_{50}$ of 19 nM. CCF0058981 has **antiviral** efficacy and has the potential for COVID-19 research.



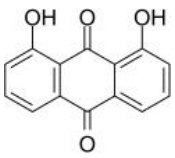
Purity: 98.35%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

## Danthron

(Dantron; Chrysazin; 1,8-Dihydroxyanthraquinone)

Cat. No.: HY-B0923

Danthron is a natural product extracted from the traditional Chinese medicine rhubarb. Danthron functions in regulating glucose and lipid metabolism by activating **AMPK**.



Purity: 98.70%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg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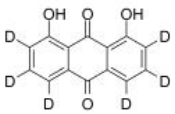
## Danthron-d6

(Dantron-d6; Chrysazin-d6; 1,8-Dihydroxyanthraquinone-d6) Cat. No.: HY-B0923S

Danthron-d6 (Dantron-d6) is the deuterium labeled Danthron. Danthron is a natural product extracted from the traditional Chinese medicine rhubarb. Danthron functions in regulating glucose and lipid metabolism by activating **AMPK**.

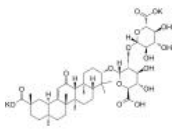


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 10 mg

## Dipotassium glycyrrhizinate

(Glycyrrhizic acid dipotassium; Dipotassium glycyrrhizate) Cat. No.: HY-N0184A

Dipotassium glycyrrhizinate is a natural compound, inhibits atopic dermatitis-related gene expression with anti-anti-inflammatory activity.

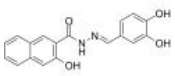


**Purity:** ≥98.0%
**Clinical Data:** Launched
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 20 mg

## Dynasore

Cat. No.: HY-15304

Dynasore is a cell-permeable **dynamin** inhibitor with an $IC_{50}$ of 15 μM.

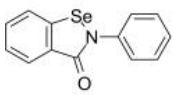


**Purity:** 98.70%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 10 mg, 50 mg

## Ebselen

(SPI-1005; PZ-51; CCG-39161) Cat. No.: HY-13750

Ebselen (SPI-1005), a glutathione peroxidase mimetic, is a potent **voltage-dependent calcium channel (VDCC)** blocker. Ebselen potently inhibits $M^{pro}$ ($IC_{50}$=0.67 μM) and **COVID-19** virus ($EC_{50}$=4.67 μM).Ebselen is an inhibitor of **HIV-1** capsid CTD dimerization.

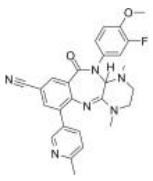


**Purity:** 99.58%
**Clinical Data:** Phase 3
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

## Encephalitic alphavirus-IN-1

Cat. No.: HY-145842

Encephalitic alphavirus-IN-1 has antiviral activity for **VEEV** and **EEEV** with $EC_{50}$s of 0.24 μM and 0.16 μM, respectively. Encephalitic alphavirus-IN-1 has robust mouse plasma stability, and no obvious cytotoxicity.

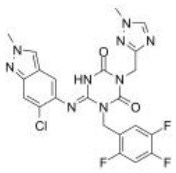


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## Ensitrelvir

(S-217622) Cat. No.: HY-143216

Ensitrelvir (S-217622) is the first orally active non-covalent, non-peptidic, **SARS-CoV-2 3CL protease** inhibitor ($IC_{50}$=13 nM).

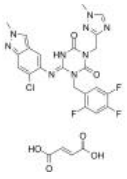


**Purity:** 99.48%
**Clinical Data:** No Development Reported
**Size:** 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

## Ensitrelvir fumarate

(S-217622 fumarate) Cat. No.: HY-143216A

Ensitrelvir (S-217622) fumarate is the first orally active non-covalent, non-peptidic, **SARS-CoV-2 3CL protease** inhibitor ($IC_{50}$=13 nM).

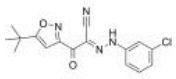


**Purity:** 99.44%
**Clinical Data:** No Development Reported
**Size:** 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

## ESI-09

Cat. No.: HY-16704

ESI-09 is a novel noncyclic nucleotide **EPAC** antagonist with $IC_{50}$ values of 3.2 and 1.4 μM for EPAC1 and EPAC2, respectively.

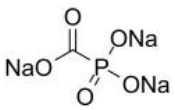


**Purity:** 98.75%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

## Foscarnet sodium (Trisodium phosphonoformate; Phosphonoformic acid trisodium salt)

Cat. No.: HY-B1318

Foscarnet sodium (Trisodium phosphonoformate) is a **viral DNA polymerase** activity inhibitor, leading to reversible suppression of viral replication. Foscarnet sodium is an antiherpesvirus agent used in cytomegalovirus retinitis.

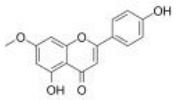


**Purity:** ≥99.0%
**Clinical Data:** Launched
**Size:** 10 mM × 1 mL, 50 mg, 100 mg, 250 mg

## Genkwanin

(Puddumetin) Cat. No.: HY-N0731

Genkwanin is a major non-glycosylated flavonoid with anti-flammatory activities.



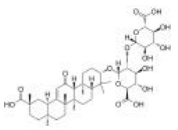
**Purity:** 99.82%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

## Glycyrrhizic acid

(Glycyrrhizin)

Cat. No.: HY-N0184

Glycyrrhizic acid is a triterpenoid saponinl, acting as a direct **HMGB1** antagonist, with anti-tumor, anti-diabetic activities.



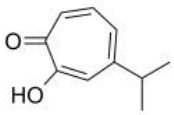
**Purity:** ≥98.0%
**Clinical Data:** Launched
**Size:** 10 mM × 1 mL, 50 mg, 100 mg, 200 mg

## Hinokitiol

(β-Thujaplicin)

Cat. No.: HY-B2230

Hinokitiol is a component of essential oils isolated from Chymacyparis obtusa, reduces **Nrf2** expression, and decreases **DNMT1** and UHRF1 mRNA and protein expression, with anti-infective, anti-oxidative, and anti-tumor activities.

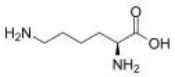


**Purity:** 98.24%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 50 mg, 100 mg

## L-Lysine

Cat. No.: HY-N0469

L-lysine is an essential amino acid with important roles in connective tissues and carnitine synthesis, energy production, growth in children, and maintenance of immune functions.

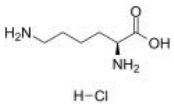


**Purity:** ≥98.0%
**Clinical Data:** Launched
**Size:** 10 mM × 1 mL, 500 mg

## L-Lysine hydrochloride

Cat. No.: HY-N0470

L-lysine hydrochloride is an essential amino acid for humans with various benefits including treating herpes, increasing calcium absorption, reducing diabetes-related illnesses and improving gut health.

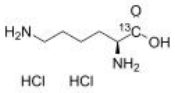


**Purity:** ≥98.0%
**Clinical Data:** Launched
**Size:** 10 mM × 1 mL, 500 mg

## L-Lysine-13C dihydrochloride

Cat. No.: HY-N0470S2

L-Lysine-13C dihydrochloride is the 13C-labeled L-Lysine dihydrochloride. L-lysine dihydrochloride is an essential amino acid for humans with various benefits including treating herpes, increasing calcium absorption, reducing diabetes-related illnesses and improving gut health.

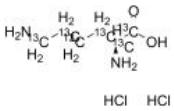


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## L-Lysine-13C6 dihydrochloride

Cat. No.: HY-N0469S1

L-Lysine-13C6 dihydrochloride is the 13C-labeled L-Lysine dihydrochloride. L-lysine dihydrochloride is an essential amino acid with important roles in connective tissues and carnitine synthesis, energy production, growth in children, and maintenance of immune functions.

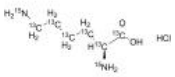


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## L-Lysine-13C6,15N2 hydrochloride

Cat. No.: HY-N0470S3

L-Lysine-13C6,15N2 hydrochloride is the 13C- and 15N-labeled L-Lysine hydrochloride.

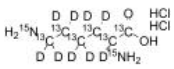


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## L-Lysine-13C6,d9,15N2 dihydrochloride

Cat. No.: HY-N0470S1

L-Lysine-13C6,d9,15N2 dihydrochloride is the deuterium, 13C-, and 15-labeled L-Lysine hydrochloride.

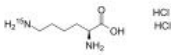


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## L-Lysine-15N-1 dihydrochloride

Cat. No.: HY-N0469S2

L-Lysine-15N-1 dihydrochloride is the 15N-labeled L-Lysine. L-lysine is an essential amino acid with important roles in connective tissues and carnitine synthesis, energy production, growth in children, and maintenance of immune functions.

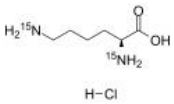


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## L-Lysine-15N2 hydrochloride

Cat. No.: HY-N0470S

L-Lysine-15N2 hydrochloride is the 15N-labeled L-Lysine hydrochloride. L-lysine hydrochloride is an essential amino acid for humans with various benefits including treating herpes, increasing calcium absorption, reducing diabetes-related illnesses and improving gut health.



**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 5 mg, 10 mg, 50 mg, 100 mg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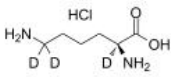
## L-Lysine-d3 hydrochloride

Cat. No.: HY-N0469S

L-Lysine-d3 hydrochloride is the deuterium labeled L-Lysine. L-lysine is an essential amino acid with important roles in connective tissues and carnitine synthesis, energy production, growth in children, and maintenance of immune functions.

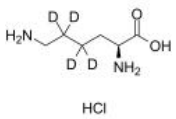


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## L-Lysine-d4 hydrochloride

Cat. No.: HY-N0470S6

L-Lysine-d4 (hydrochloride) is the deuterium labeled L-Lysine. L-lysine hydrochloride is an essential amino acid for humans with various benefits including treating herpes, increasing calcium absorption, reducing diabetes-related illnesses and improving gut health.

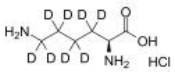


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## L-Lysine-d8 hydrochloride

Cat. No.: HY-N0470S4

L-Lysine-d8 hydrochloride is the deuterium labeled L-Lysine hydrochloride. L-lysine hydrochloride is an essential amino acid for humans with various benefits including treating herpes, increasing calcium absorption, reducing diabetes-related illnesses and improving gut health.

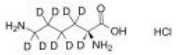


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## L-Lysine-d9 hydrochloride

Cat. No.: HY-N0470S5

L-Lysine-d9 (hydrochloride) is the deuterium labeled L-Lysine. L-lysine hydrochloride is an essential amino acid for humans with various benefits including treating herpes, increasing calcium absorption, reducing diabetes-related illnesses and improving gut health.

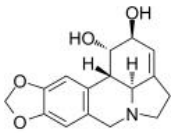


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## Lycorine

Cat. No.: HY-N0288

Lycorine is a natural alkaloid extracted from the Amaryllidaceae plant. Lycorine is a potent and orally active **SCAP** inhibitor with a $K_d$ value 15.24 nM. Lycorine downregulates the SCAP protein level without changing its transcription.

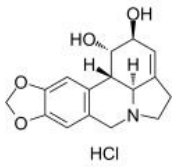


**Purity:** ≥98.0%
**Clinical Data:** No Development Reported
**Size:** 50 mg, 100 mg

## Lycorine hydrochloride

Cat. No.: HY-N0289

Lycorine hydrochloride is the main active ingredient of the herbal medicine derived from Lycoris radia and is also a melanoma vasculogenic inhibitor and has anti-tumor activity. Lycorine hydrochloride effectively inhibits mitotic proliferation of Hey1B cells ($IC_{50}$ of 1.2 μM).

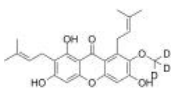


**Purity:** 99.89%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 10 mg, 25 mg, 50 mg, 100 mg

## Mangostin-d3

Cat. No.: HY-N0328S

alpha-Mangostin-d3 (α-Mangostin-d3) is the deuterium labeled alpha-Mangostin. alpha-Mangostin (α-Mangostin) is a dietary xanthone with broad biological activities, such as antioxidant, anti-allergic, antiviral, antibacterial, anti-inflammatory and anticancer effects.

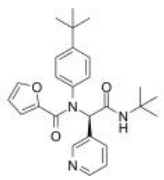


**Purity:** >98%
**Clinical Data:**
**Size:** 2.5 mg, 25 mg

## ML188

Cat. No.: HY-136259

ML188, a first in class probe, is a selective non-covalent SARS-CoV **3CLpro** inhibitor with an $IC_{50}$ of 1.5 μM. Antiviral activity.

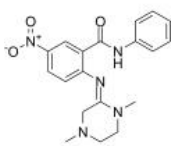


**Purity:** 98.35%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

## ML336

Cat. No.: HY-12928

ML336 is quinazolinone-based inhibitor against venezuelan equine encephalitis virus (VEEV), with $IC_{50}$s of 32, 20, and 42 nM for VEEV TC-83 CPE , VEEV V3526 CPE, VEEV Wild Type CPE, respectively.

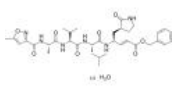


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## Mpro inhibitor N3 hemihydrate

Cat. No.: HY-136149A

Mpro inhibitor N3 hemihydrate is a potent inhibitor of **SARS-CoV-2 Mpro** with an $EC_{50}$ of 16.77 μM for SARS-CoV-2. Mpro inhibitor N3 hemihydrate specifically inhibits Mpro from multiple coronaviruses, including SARS-CoV and MERS-CoV.

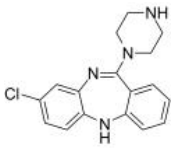


**Purity:** ≥98.0%
**Clinical Data:** No Development Reported
**Size:** 5 mg, 25 mg

## N-Desmethylclozapine

**(Norclozapine; Desmethylclozapine; Normethylclozapine)** **Cat. No.:** HY-G0021

N-Desmethylclozapine is a major active metabolite of the atypical antipsychotic drug Clozapine.

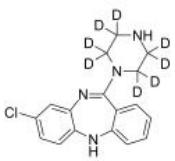


**Purity:** 99.66%
**Clinical Data:** Phase 1
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg

## N-Desmethylclozapine-d8 (Norclozapine-d8; Desmethylclozapine-d8; Normethylclozapine-d8)

**Cat. No.:** HY-G0021S

N-Desmethylclozapine-d8 (Norclozapine-d8) is the deuterium labeled N-Desmethylclozapine. N-Desmethylclozapine is a major active metabolite of the atypical antipsychotic drug Clozapine.

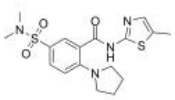


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## NGI-1

**(ML414)** **Cat. No.:** HY-117383

NGI-1 (ML414) is a potent **oligosaccharyltransferase (OST)** inhibitor, directly targeting and blocking the function of the OST catalytic subunits STT3A and STT3B. NGI-1 is a cell permeable inhibitor and can effectively reduce virus infectivity without affecting cell viability.



**Purity:** 99.90%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

## NH125

**Cat. No.:** HY-100576

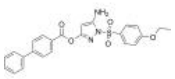
NH125 is a potent and selective inhibitor of eukaryotic elongation factor 2 kinase **(eEF-2K/CaMKIII)**, also can induce eEF2 phosphorylation, with an $IC_{50}$ of 60 nM for eEF-2K.

**Purity:** ≥98.0%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

## NS2B/NS3-IN-2

**Cat. No.:** HY-144612

NS2B/NS3-IN-2 is a potent dengue virus (**DENV**) **NS2B/NS3** covalent inhibitor with an $IC_{50}$ of 6.0 nM and $K_i$ of 0.66 μM. NS2B/NS3-IN-2 shows no cytotoxicity and markedly increases the cell survival rate.

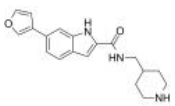


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## NS2B/NS3-IN-3

**Cat. No.:** HY-144644

NS2B/NS3-IN-3 (Compd 66) is an inhibitor of **Flavivirus NS2B-NS3** protease.

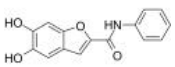


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## NS2B/NS3-IN-4

**Cat. No.:** HY-144736

NS2B/NS3-IN-4 (Compound 34e) is an allosteric **DENV2** and **ZIKV NS2B/NS3 protease** inhibitor with $IC_{50}$ values of 0.69 μM and 1.04 μM against DENV2 and ZIKV NS2B/NS3 proteases, respectively.

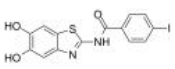


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## NS2B/NS3-IN-5

**Cat. No.:** HY-144740

NS2B/NS3-IN-5 (Compound 25b) is an allosteric **DENV2** and **ZIKV NS2B/NS3 protease** inhibitor with $IC_{50}$ values of 0.67 μM and 4.38 μM against ZIKV and DENV2 NS2B/NS3 proteases, respectively.

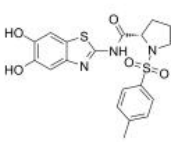


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## NS2B/NS3-IN-6

**Cat. No.:** HY-144742

NS2B/NS3-IN-6 (Compound 1a) is an allosteric **DENV** and **ZIKV NS2B/NS3 protease** inhibitor with $IC_{50}$ values of 2.23 μM and 25.2 μM against ZIKV and DENV proteases, respectively.

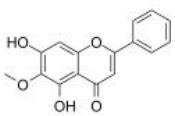


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## Oroxylin A

**(Baicalein 6-methyl ether; 6-Methoxybaicalein)** **Cat. No.:** HY-N0560

Oroxylin A is a natural active flavonoid with strong anticancer effects. IC50 value: Target: In vitro: Oroxylin A suppressed the MDM2-mediated degradation of p53 via downregulating MDM2 transcription in wt-p53 cancer cells .

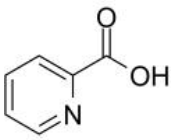


**Purity:** 99.90%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 5 mg, 10 mg

## PCL 016

Cat. No.: HY-I0660

PCL 016 is a topical antiviral agent, which inhibits adenovirus replication in rabbit.

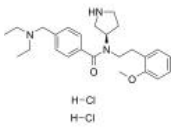


Purity: 99.96%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 500 mg, 5 g

## PF429242 dihydrochloride

Cat. No.: HY-13447A

PF429242 dihydrochloride is a reversible and competitive **SREBP** site 1 protease (**S1P**) inhibitor with an **$IC_{50}$** of 175 nM.



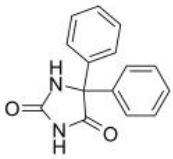
Purity: 99.32%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

## Phenytoin

(5,5-Diphenylhydantoin)

Cat. No.: HY-B0448

Phenytoin (5,5-Diphenylhydantoin) is a potent **Voltage-gated $Na^+$ channels (VGSCs)** blocker. Phenytoin has antiepileptic activity and reduces breast tumour growth and metastasis in mice.



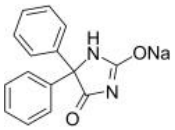
Purity: 99.90%
Clinical Data: Launched
Size: 10 mM × 1 mL, 500 mg, 1 g, 5 g

## Phenytoin sodium

(5,5-Diphenylhydantoin sodium salt)

Cat. No.: HY-B0448A

Phenytoin sodium (5,5-Diphenylhydantoin sodium salt) is a potent **Voltage-gated $Na^+$ channels (VGSCs)** blocker. Phenytoin has antiepileptic activity and reduces breast tumour growth and metastasis in mice.



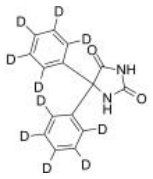
Purity: 99.96%
Clinical Data: Launched
Size: 10 mM × 1 mL, 500 mg, 1 g, 5 g

## Phenytoin-d10

(5,5-Diphenylhydantoin-d10)

Cat. No.: HY-B0448S

Phenytoin-d10 (5,5-Diphenylhydantoin-d10) is the deuterium labeled Phenytoin. Phenytoin (5,5-Diphenylhydantoin) is a potent **Voltage-gated $Na^+$ channels (VGSCs)** blocker. Phenytoin has antiepileptic activity and reduces breast tumour growth and metastasis in mice.

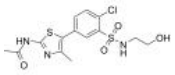


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg

## PIK-93

Cat. No.: HY-12046

PIK-93 is the first potent, synthetic **PI4K (PI4KIIIβ)** inhibitor with **$IC_{50}$** of 19 nM, and also inhibits **PI3Kγ** and **PI3Kα** with **$IC_{50}$** of 16 nM and 39 nM, respectively.

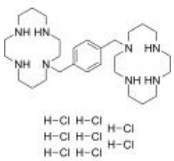


Purity: 99.37%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

## Plerixafor octahydrochloride (AMD3100 octahydrochloride; JM3100 octahydrochloride; SID791 octahydrochloride)

Cat. No.: HY-50912

Plerixafor octahydrochloride (AMD3100 octahydrochloride) is a selective **CXCR4** antagonist with an **$IC_{50}$** of 44 nM.

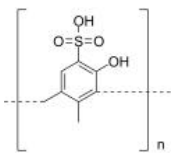


Purity: ≥98.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

## Policresulen

Cat. No.: HY-W129596

Policresulen is a potent inhibitor of **DENV2 NS2B/NS3 protease** (**$IC_{50}$** of 0.48 μg/mL). Policresulen inhibits DENV2 replication in BHK-21 cells with $IC_{50}$ of 4.99 μg/mL. Policresulen acts as a competitive inhibitor of the protease, and slightly affects the protease stability.



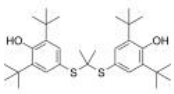
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

## Probucol

(DH-581)

Cat. No.: HY-B0388

Probucol (DH-581) is an anti-hyperlipidemic drug by lowering the level of cholesterol in the bloodstream by increasing the rate of LDL catabolism.



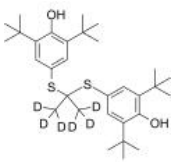
Purity: 99.97%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

## Probucol-d6

(DH-581-d6)

Cat. No.: HY-B0388S1

Probucol-d6 is deuterium labeled Probucol. Probucol (DH-581) is an anti-hyperlipidemic drug by lowering the level of cholesterol in the bloodstream by increasing the rate of LDL catabolism.

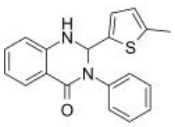


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

## Retro-2 cycl

(RN 1-001) Cat. No.: HY-114698

Retro-2 cycl (RN 1-001) is a dihydroquinazolinone (DHQZ) inhibitor of retrograde trafficking. Retro-2 cycl (RN 1-001) inhibits JCPyV and HPV16 pseudovirus with $IC_{50}$s of 54 μM and 160 μM, respectively. Antiviral agent.

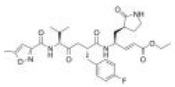


Purity: 99.86%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

## Rupintrivir

(AG7088) Cat. No.: HY-106161

Rupintrivirvr (AG7088), an antiviral drug, is a potent, selective and irreversible inhibitor of **human rhinovirus (HRV) 3C protease**.

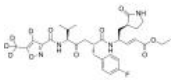


Purity: ≥99.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 1 mg, 5 mg

## Rupintrivir-d4

(AG7088-d4) Cat. No.: HY-106161S

Rupintrivir-d4 (AG7088-d4) is the deuterium labeled Rupintrivir. Rupintrivirvr (AG7088), an antiviral drug, is a potent, selective and irreversible inhibitor of **human rhinovirus (HRV) 3C protease**.

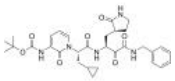


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

## SARS-CoV-2-IN-1

Cat. No.: HY-135860

SARS-CoV-2-IN-1 is a potent **Mpro** inhibitor. SARS-CoV-2-IN-1 inhibits the purified recombinant SARS-CoV-2 Mpro, SARS-CoV Mpro and MERS-CoV Mpro with $IC_{50}$s of 0.67, 0.90 and 0.58 μM, respectively.

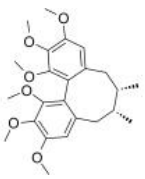


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

## Schisandrin A

(Schizandrin-A; Wuweizisu-A; Deoxyschizandrin) Cat. No.: HY-N0693

Schisandrin A inhibits **CYP3A** activity with an $IC_{50}$ of 6.60 μM and $K_i$ of 5.83 μM, respectively.

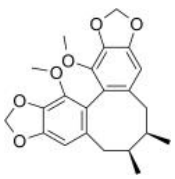


Purity: 99.43%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg

## Schisandrin C

(Schizandrin-C; Wuweizisu-C) Cat. No.: HY-N0690

Schisandrin C (Schizandrin-C) is a phytochemical **lignan** isolated from Schizandra chinensis. Schisandrin C has diverse biological activities, including anticancer, anti-inflammatory and antioxidant effects.

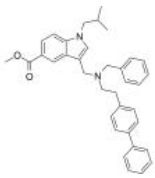


Purity: 99.95%
Clinical Data: No Development Reported
Size: 10 mg, 50 mg, 100 mg

## SP inhibitor 1

Cat. No.: HY-144647

SP inhibitor 1 (compound 34) is a selective **SARS-CoV-2 spike protein (SP)** inhibitor with an $IC_{50}$ of 3.26 μM, >25 μM, >25 μM for SP, $M^{pro}$ and $PL^{pro}$ protein, respectively.

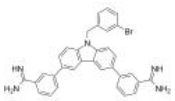


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

## SP-471

Cat. No.: HY-144646

SP-471 is a potent **dengue virus (DENV) protease** inhibitor with $IC_{50}$ value of 18 μM. SP-471 inhibits both intermolecular and intramolecular protease processes of DENV.

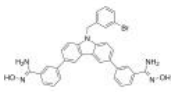


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

## SP-471P

Cat. No.: HY-144645

SP-471P is a potent **dengue virus (DENV) protease** inhibitor with $EC_{50}$s of 5.9 μM, 1.4 μM, 5.1 μM and 1.7 μM for DENV1, DENV2, DENV3 and DENV4, respectively and $CC_{50}$ value over 100 μM. SP-471P can reduce DENV viral **RNA synthesis**.

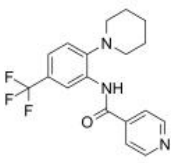


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

## SRPIN340

(SRPK inhibitor) Cat. No.: HY-13949

SRPIN340 is an ATP-competitive serine-arginine-rich protein kinase (**SRPK**) inhibitor, with a $K_i$ of 0.89 μM for SRPK1.



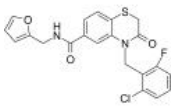
Purity: 99.82%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

## STING agonist-1

(G10)

Cat. No.: HY-19711

STING agonist-1 (G10) is human-specific **STING** agonist that elicits antiviral activity against emerging Alphaviruses. G10 potently blocks replication of Alphavirus species Venezuelan Equine Encephalitis Virus (VEEV) with $IC_{90}$ of 24.57 μM.



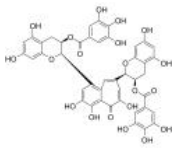
**Purity:** 99.54%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

## Theaflavin 3,3'-digallate

(TF-3; ZP10)

Cat. No.: HY-N1992

Theaflavin 3,3'-digallate (TF-3) is a potent **Zika virus (ZIKV) protease** inhibitor with an $IC_{50}$ of 2.3 μM. Theaflavin 3,3'-digallat directly binds to ZIKVpro ($K_d$=8.86 μM) and inhibits ZIKV replication.

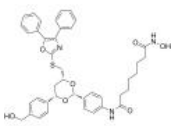


**Purity:** 99.73%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 5 mg, 10 mg

## Tubacin

Cat. No.: HY-13428

Tubacin is a potent and selective inhibitor of **HDAC6**, with an $IC_{50}$ value of 4 nM and approximately 350-fold selectivity over HDAC1.

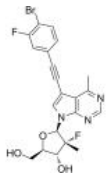


**Purity:** 95.14%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 20 mg

## ZIKV-IN-1

Cat. No.: HY-146957

ZIKV-IN-1 is a potent **zika virus** inhibitor with an $EC_{50}$ of 2.8 μM and $EC_{90}$ of 6.8 μM. ZIKV-IN-1 shows anti-ZIKV activity with low cytotoxicity. ZIKV-IN-1 shows a strong affinity to ZIKV RdRp domain.

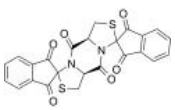


**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg

## ZINC03129319

Cat. No.: HY-112254

ZINC03129319 is a dengue virus (**DENV**) **NS2B-NS3 protease** inhibitor extracted from patent US20150141521A1, has inhibition constants ($K_{i1}$) of 92 μM and $K_{i3}$ of 20 μM.



**Purity:** 98.33%
**Clinical Data:** No Development Reported
**Size:** 10 mM × 1 mL, 25 mg