Influenza virus belongs to the Orthomyxoviridae group, which are enveloped, segmented, single-stranded negative sense RNA viruses. The group includes three types of influenza viruses, A, B and C. Type B and C viruses only infect humans, but the type A viruses infect humans, horses, swine, other mammals, and a wide variety of domesticated and wild birds. Human influenza A and B viruses cause seasonal epidemics of disease almost every winter in the United States. The emergence of a new and very different influenza virus to infect people can cause an influenza pandemic. Influenza type C infections cause a mild respiratory illness and are not thought to cause epidemics. Each virus subtype has mutated into a variety of strains with differing pathogenic profiles; some are pathogenic to one species but not others, some are pathogenic to multiple species.
Influenza Virus Inhibitors & Modulators

**Amantadine hydrochloride** (1-Adamantanamine hydrochloride; 1-Adamantylamine hydrochloride; ...)

**Cat. No.: HY-B0402A**

**Bioactivity:** Amantadine Hydrochloride is an antiviral and an antiparkinsonian drug.

**Purity:** 98.00%

**Clinical Data:** Launched

**Size:** 10mM x 1mL in Water, 5 g, 10 g, 50 g

**Bioactivity:** Aprotinin is a bovine pancreatic trypsin inhibitor (BPTI) inhibitor which inhibits trypsin and chymotrypsin with $K_i$ of 0.06 pM and 9 nM, respectively.

**Purity:** 99.71%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

**Arbidol hydrochloride** (Umifenovir hydrochloride)

**Cat. No.: HY-14904A**

**Bioactivity:** Arbidol (Umifenovir) hydrochloride is a broad-spectrum antiviral chemical agent which can inhibit cell entry of enveloped viruses by blocking viral fusion with host cell membrane.

**Purity:** 99.44%

**Clinical Data:** Phase 4

**Size:** 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

**Bioactivity:** CEF3 (SIIPSGPLK) corresponds to aa 13-21 of the influenza A virus M1 protein. The matrix (M1) protein of influenza A virus is a multifunctional protein that plays essential structural and functional roles in the virus life cycle.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 1 mg, 5 mg, 10 mg

**Bioactivity:** Dehydroandrographolide is extracted from herbal medicine Andrographis paniculata (Burm f) Nees; alleviate oxidative stress in LPS-induced acute lung injury possibly by inactivating iNOS.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 10 mg, 50 mg

**Bioactivity:** Desaminotyrosine is a microbially associated metabolite protecting from influenza type I interferon signaling.

**Purity:** 99.32%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 100 mg

**Bioactivity:** KIN1148, a small-molecule IRF3 agonist, is a novel influenza vaccine adjuvant found to enhance flu vaccine efficacy.

**Purity:** 98.0%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

**Bioactivity:** This compound is capable of inhibiting and blocking the activity of M2 ion channel. Antiviral agents.

**Purity:** 95.0%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 100 mg

**Bioactivity:** Baloxavir is an anti-influenza agent extracted from patent WO 2017104691 A1.

**Purity:** 99.71%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

**Bioactivity:** KIN1148, a small-molecule IRF3 agonist, is a novel influenza vaccine adjuvant found to enhance flu vaccine efficacy.

**Purity:** 98.0%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

**Bioactivity:** Aprotinin is a bovine pancreatic trypsin inhibitor (BPTI) inhibitor which inhibits trypsin and chymotrypsin with $K_i$ of 0.06 pM and 9 nM, respectively.

**Purity:** 99.71%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

**Bioactivity:** CEF3 (SIIPSGPLK) corresponds to aa 13-21 of the influenza A virus M1 protein. The matrix (M1) protein of influenza A virus is a multifunctional protein that plays essential structural and functional roles in the virus life cycle.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 1 mg, 5 mg, 10 mg

**Bioactivity:** Dehydroandrographolide is extracted from herbal medicine Andrographis paniculata (Burm f) Nees; alleviate oxidative stress in LPS-induced acute lung injury possibly by inactivating iNOS.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 10 mg, 50 mg

**Bioactivity:** Desaminotyrosine is a microbially associated metabolite protecting from influenza type I interferon signaling.

**Purity:** 99.32%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 100 mg

**Bioactivity:** KIN1148, a small-molecule IRF3 agonist, is a novel influenza vaccine adjuvant found to enhance flu vaccine efficacy.

**Purity:** 98.0%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

**Bioactivity:** This compound is capable of inhibiting and blocking the activity of M2 ion channel. Antiviral agents.

**Purity:** 95.0%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 100 mg
Moroxydine hydrochloride  
(ABOB hydrochloride)  
Cat. No.: HY-B0420A

Bioactivity: Moroxydine HCl is a synthetic antiviral compound chemically belonging to the series of the heterocyclic biguanidines. Target: Influenza Virus Moroxydine is an antiviral drug that was originally developed in the 1950s as an influenza treatment. It has potential applications against a number of...

Purity: 99.89%
Clinical Data: Launched
Size: 10mM x 1mL in Water, 100 mg, 500 mg, 1 g, 5 g, 10 g

Nitazoxanide  
(NTZ; NSC 697855)  
Cat. No.: HY-B0217

Bioactivity: Nitazoxanide is a synthetic nitrothiazolyl-salicylamide derivative and an antiprotozoal agent. (IC50 for canine influenza virus ranges from 0.17 to 0.21 μM). Target: Others Nitazoxanide is a synthetic nitrothiazolyl-salicylamide derivative and an antiprotozoal agent. In vitro studies...

Purity: 95.24%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

Nucleozin  
Cat. No.: HY-50001

Bioactivity: Nucleozin targets influenza A nucleoprotein (NP), a multifunctional, RNA-binding protein necessary for virus replication. IC50 Value: Target: Influenza Virus NP Nucleozin targets influenza A nucleoprotein, a multifunctional, RNA-binding protein necessary for virus replication. It...

Purity: 99.45%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DM50, 5 mg, 10 mg, 25 mg, 50 mg

Bioactivity:

- Moroxydine hydrochloride: A synthetic antiviral compound chemically related to biguanidines.
- Nitazoxanide: A synthetic nitrothiazolyl-salicylamide derivative and antiprotozoal agent.
- Nucleozin: Targets influenza A nucleoprotein (NP), a multifunctional RNA-binding protein.
- Oseletamivir acid: The ethyl ester prodrug of GS 4071, an inhibitor of influenza virus neuraminidase.
- Oseltamivir phosphate: A neuraminidase inhibitor recommended for treatment and prophylaxis of influenza A and B.
- PA (224-233), Influenza: A 10-aa peptide fragment of polymerase 2 protein in influenza A virus.
- Peramivir trihydrate: A transition-state analogue and potent influenza viral neuraminidase inhibitor.
- Peramivir trihydrate trihydrate: An oral bioavailable inhibitor of influenza A virus polymerases.
- Pimodivir: An inhibitor of influenza A virus polymerases.

Moroxydine hydrochloride (ABOB hydrochloride)

Bioactivity: Moroxydine HCl is a synthetic antiviral compound chemically belonging to the series of the heterocyclic biguanidines. Target: Influenza Virus Moroxydine is an antiviral drug that was originally developed in the 1950s as an influenza treatment. It has potential applications against a number of...

Purity: 99.89%
Clinical Data: Launched
Size: 10mM x 1mL in Water, 100 mg, 500 mg, 1 g, 5 g, 10 g

Nitazoxanide (NTZ; NSC 697855)

Bioactivity: Nitazoxanide is a synthetic nitrothiazolyl-salicylamide derivative and an antiprotozoal agent. (IC50 for canine influenza virus ranges from 0.17 to 0.21 μM). Target: Others Nitazoxanide is a synthetic nitrothiazolyl-salicylamide derivative and an antiprotozoal agent. In vitro studies...

Purity: 95.24%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

Bioactivity:

- Nitazoxanide: A synthetic nitrothiazolyl-salicylamide derivative and antiprotozoal agent.
- Nucleozin: Targets influenza A nucleoprotein (NP), a multifunctional RNA-binding protein.
- Oseletamivir acid: The ethyl ester prodrug of GS 4071, an inhibitor of influenza virus neuraminidase.
- Oseltamivir phosphate: A neuraminidase inhibitor recommended for treatment and prophylaxis of influenza A and B.
- PA (224-233), Influenza: A 10-aa peptide fragment of polymerase 2 protein in influenza A virus.
- Peramivir trihydrate: A transition-state analogue and potent influenza viral neuraminidase inhibitor.
- Peramivir trihydrate trihydrate: An oral bioavailable inhibitor of influenza A virus polymerases.
- Pimodivir: An inhibitor of influenza A virus polymerases.
RIG-1 modulator 1

Cat. No.: HY-107902

Bioactivity: RIG-1 modulator 1 is an anti-viral compound which can be useful for the treatment of viral infections including influenza virus, HBV, HCV and HIV extracted from patent WO 201312099 A1.

Purity: 98.81%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg

Rimantadine

(1-Rimantadine)

Cat. No.: HY-B0338

Bioactivity: Rimantadine (Flumadine) is an anti-influenza virus drug.

Purity: 99.30%
Clinical Data: No Development Reported
Size: 2 mg, 5 mg, 10 mg, 25 mg

Rimantadine hydrochloride

Cat. No.: HY-B0338A

Bioactivity: Rimantadine Hcl (Flumadine) is an anti-influenza virus drug.

Purity: 98.0%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 100 mg, 1 g

RO-7

Cat. No.: HY-112684

Bioactivity: RO-7 is a next-generation polymerase (PA) endonuclease inhibitor of influenza A and B viruses.

Purity: >98%
Clinical Data: No Development Reported
Size: 500 mg, 250 mg

S119-8

Cat. No.: HY-112543

Bioactivity: S119-8 is a broad spectrum inhibitor of influenza A and B viruses.

Purity: 99.49%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Sodium copper chlorophyllin

Cat. No.: HY-B2226

Bioactivity: Sodium copper chlorophyllin exerts antiviral activities against Influenza virus and HIV with IC_{50} values of 50 to 100 μM for both of them.

Purity: >98%
Clinical Data: No Development Reported
Size: 10mM x 1mL in Water, 1 g

SP187

(MON-DNJ; UV4)

Cat. No.: HY-U00160

Bioactivity: SP187 is a host-targeted iminosugar with activity against filovirus infections in vitro and in vivo. SP187 is active against influenza and dengue in vivo.

Purity: 99.30%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 20 mg

Theaflavin

Cat. No.: HY-N0243

Bioactivity: Theaflavin is a suitable natural inhibitor against influenza A (H1N1) neuraminidase.

Purity: 99.09%
Clinical Data: No Development Reported
Size: 2 mg, 5 mg, 10 mg, 25 mg

Zanamivir

Cat. No.: HY-13210

Bioactivity: Zanamivir is an influenza viral neuraminidase inhibitor with IC_{50} values of 0.95 nM and 2.7 nM for influenza A and B, respectively.

Purity: 99.59%
Clinical Data: Launched
Size: 10mM x 1mL in Water, 10 mg, 50 mg, 100 mg

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