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-Adam antylamine hydrochloride; 1-Aminoadamantane hydr...)

Cat. No.: HY-B0402A

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

Purity: 98.00%
Clinical Data: 10mM x 1mL in DMSO,
5 g, 10 g, 50 g

Aprotinin

Cat. No.: HY-P0017

Bioactivity: Aprotinin is a serine protease inhibitor isolated from bovine lung which inhibits trypsin and chymotrypsin with \( K_i \) values of 0.06 pM and 9 nM, respectively.

Purity: 99.56%
Clinical Data: Phase 4
Size: 10mM x 1mL in Water,
10 mg, 50 mg, 100 mg

Arbidol hydrochloride
(Umifenovir hydrochloride)

Cat. No.: HY-14904A

Bioactivity: Arbidol (Umifenovir) hydrochloride is an 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

Baloxavir

Cat. No.: HY-109025A

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

Purity: 98.92%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
1 mg, 5 mg, 10 mg, 25 mg, 50 mg

CEF3
(Ser-Ile-Ile-Pro-Ser-Gly-Pro-Leu-Lys; SIIPSGPLK)

Cat. No.: HY-P0289

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

CEF6
(Leu-Pro-Phe-Asp-Lys-Thr-Val-Met; LPFDKTTVM)

Cat. No.: HY-P0313

Bioactivity: CEF6 is a 9-aa-long peptide corresponding to aa 418-426 of the influenza A virus (H1N1) nucleocapsid protein.

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

Dehydroandrographolide

Cat. No.: HY-N0676

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

Desaminotyrosine
(3-(4-Hydroxyphenyl)propionic acid)

Cat. No.: HY-W015346

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

Purity: 99.32%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
100 mg

KIN1148

Cat. No.: HY-101950

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

M2 ion channel blocker (L-Histidine, N-(tricyclo[3.3.1.3.7]de c-1-ylmethyl)-, methyl ester)

Cat. No.: HY-75867

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

**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

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

Nitazoxanide D4
(NTZ D4; NSC-697855 D4)  
Cat. No.: HY-B0217S

**Bioactivity:** Nitazoxanide D4 is the deuterium labeled Nitazoxanide, which is an antiprotozoal agent.

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

Oseltamivir acid
(GS 4071; Ro 64-0802; oseltamivir carboxylate)  
Cat. No.: HY-13318

**Bioactivity:** Oseltamivir acid is an active metabolite of Oseltamivir, which is a potent and selective inhibitor of influenza A and B virus neuraminidases.

**Purity:** 98.60%
**Clinical Data:** Phase 4
**Size:** 10mM x 1mL in Water, 5 mg, 10 mg, 50 mg

Oseltamivir phosphate
(GS 4104)  
Cat. No.: HY-17016

**Bioactivity:** Oseltamivir phosphate is a neuraminidase inhibitor recommended for the treatment and prophylaxis of influenza A and B.

**Purity:** 99.46%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 100 mg, 500 mg

PA (224-233), Influenza  
Cat. No.: HY-P1580

**Bioactivity:** PA (224-233), Influenza is a 10-aa peptide, a fragment of polymerase 2 protein in influenza A virus.

**Purity:** >98%
**Clinical Data:** No Development Reported

Peramivir (RWJ-270201; BCX-1812)  
Cat. No.: HY-17015A

**Bioactivity:** Peramivir (RWJ 270201, Rapiacta; BCX 1812) is a transition-state analogue and a potent, specific influenza viral neuraminidase inhibitor with an IC50 of median 0.09 nM.

**Purity:** >98%
**Clinical Data:** Launched
**Size:** 10 mg, 50 mg

Peramivir trihydrate  
(RWJ 270201 trihydrate; BCX 1812 trihydrate)  
Cat. No.: HY-17015

**Bioactivity:** Peramivir (RWJ 270201, Rapiacta; BCX 1812) is a transition-state analogue and a potent, specific influenza viral neuraminidase inhibitor with an IC50 of median 0.09 nM.

**Purity:** 99.91%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in Water, 10 mg, 50 mg

Pimodivir  
(VX-787)  
Cat. No.: HY-12353A

**Bioactivity:** Pimodivir is an orally bioavailable inhibitor of influenza A virus polymerases through interaction with the viral PB2 subunit.

**Purity:** 99.04%
**Clinical Data:** Phase 3
**Size:** 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg, 200 mg
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 2015172099 A1.

**Purity:** 98.81%

**Clinical Data:** No Development Reported

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

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Rimantadine
Cat. No.: HY-B0338

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

**Purity:** >98%

**Clinical Data:** No Development Reported

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

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Rimantadine hydrochloride
Cat. No.: HY-B0338A

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

**Purity:** 98.0%

**Clinical Data:** No Development Reported

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

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Sodium copper chlorophyllin
Cat. No.: HY-B2226

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

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 1 g

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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:** >98%

**Clinical Data:** No Development Reported

**Size:** 1 mg, 5 mg, 10 mg, 20 mg

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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

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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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