

Influenza A virus-IN-1 Biochemical

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CATALOG #
AAA228270

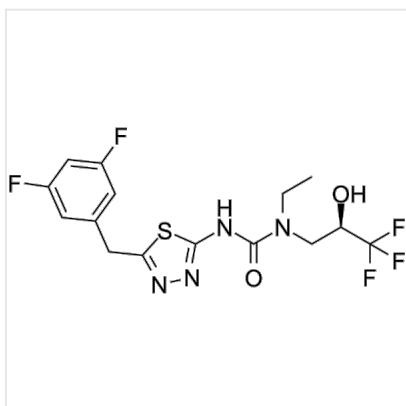
PRODUCT SYNONYMS

Influenza A virus-IN-1; Influenza A virus-IN-1 biochemical

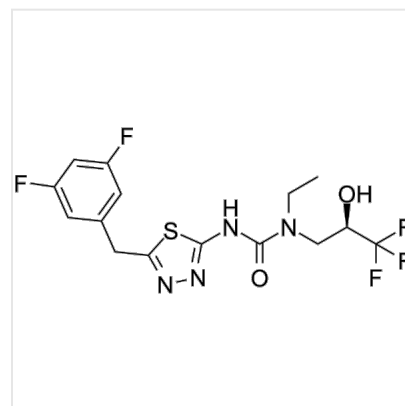
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	2250313-14-3
Targets&IC50	A/PR/8/34 (H1N1) with NA-H274Y:6.48 uM (IC50), The influenza A virus 690 (H3):7.13 uM (IC50), A/FM-1/1/47 (H1N1):3.58 uM (IC50), A/Aichi/2/68 (H3N2):5.26 uM (IC50), A/Puerto Rico/8/34 (H1N1):3.11 uM (IC50)
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	Influenza A virus-IN-1 (compound 5-2; 5-40 uM; 24 hours; MDCK cells) treatment significantly decreases the yields of influenza viral NP in a dose-dependent manner. And the expression level of NP protein could also be restrained in a dose-dependent manner[1]. Influenza A virus-IN-1 (compound 5-2) treatment reduces influenza HA mRNA expression at all three time points[1]. Influenza A virus-IN-1 (compound 5-2) could efficiently inhibit replication of IAV and suppress the production of the NDAPH oxidase NOX1 in MDCK cells[1]. Western Blot Analysis[1]Cell Line: IAV-infected MDCK cells Concentration: 5 uM, 10 uM, 20 uM, 40 uM Incubation Time: 24 hours. Result: Significantly decreased the yields of influenza viral NP in a dose-dependent manner.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
MrgprX2 antagonist-1, CAS 2642162-06-7



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ADDITIONAL INFORMATION

Related Product Information for Influenza A virus-IN-1 biochemical

Influenza A virus-IN-1 is a dihydropyridones derivative and is a potent inhibitor against wide subtypes of influenza A virus (IAV) with IC 50 values from 3.11 uM to 7.13 uM. Influenza A virus-IN-1 efficiently inhibits replication of IAV, up-regulates the expression of key antiviral cytokines IFN-beta and antiviral protein MxA.

References

1. CEVIKBAS F, et, al. MrgprX2 ANTAGONISTS AND USES THEREOF. WO2021092264A1.
2. Porebski G, et, al. Mas-Related G Protein-Coupled Receptor-X2 (MRGPRX2) in Drug Hypersensitivity Reactions. Front Immunol. 2018 Dec 20;9:3027.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/influenza-a-virus-in-1/228270>