

ALS-8112

Chemical Properties

CAS No. : 1445379-92-9

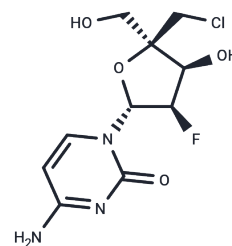
Formula: C₁₀H₁₃ClFN₃O₄

Molecular Weight: 293.68

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	ALS-8112 (ALS 008112) is a selective and potent inhibitor of respiratory syncytial virus (RSV) polymerase with an IC ₅₀ value of 0.02 μM. ALS-8112 exhibits antiviral activity and inhibits the RNA polymerase activity of the RSV L-P protein complex through RNA chain termination. virus infections.
Targets(IC ₅₀)	RSV
In vitro	ALS-8112 is an efficient nucleoside RSV polymerase inhibitor with an IC ₅₀ value of 0.02 μM.

Solubility Information

Solubility	DMSO: 30 mg/mL (102.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4051 mL	17.0253 mL	34.0507 mL
5 mM	0.681 mL	3.4051 mL	6.8101 mL
10 mM	0.3405 mL	1.7025 mL	3.4051 mL
50 mM	0.0681 mL	0.3405 mL	0.681 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wang G, et al. Discovery of 4'-chloromethyl-2'-deoxy-3',5'-di-O-isobutyryl-2'-fluorocytidine (ALS-8176), a first-in-class RSV polymerase inhibitor for treatment of human respiratory syncytial virus infection. *J Med Chem*. 2015 Feb 26;58(4):1862-78.

Jordan PC, et al. Activation Pathway of a Nucleoside Analog Inhibiting Respiratory Syncytial Virus Polymerase. *ACS Chem Biol*. 2017 Jan 20;12(1):83-91.

DeVincenzo JP, et al. Activity of Oral ALS-008176 in a Respiratory Syncytial Virus Challenge Study. *N Engl J Med*. 2015 Nov 19;373(21):2048-58.

Deval J, et al. Molecular Basis for the Selective Inhibition of Respiratory Syncytial Virus RNA Polymerase by 2'-Fluoro-4'-Chloromethyl-Cytidine Triphosphate. *PLoS Pathog*. 2015 Jun 22;11(6):e1004995.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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