Data Sheet (Cat.No.T35340)

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Bictegravir Sodium

Chemical Properties

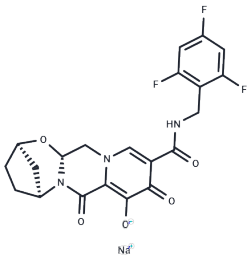
CAS No. : 1807988-02-8

Formula: C21H17F3N3NaO5

Molecular Weight: 471.36

Appearance: no data available

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



Biological Description

Description	Bictegravir Sodium (GS-9883 Sodium) is a potent inhibitor of HIV-1 integrase, with an IC50 of 7.5 nM. Bictegravir Sodium exhibits potent and selective anti-HIV activity and low cytotoxicity
Targets(IC50)	HIV Protease
In vitro	Bictegravir Sodium potently inhibits HIV-1 replication in both MT-2 and MT-4 cells with EC50s of 1.5 and 2.4 nM, respectively, and selectivity indices (50% cytotoxic concentration [CC50]/EC50) of 6,800 in MT-2 cells and 1,500 in MT-4 cells[1].

Solubility Information

Solubility	DMSO: 15.3 mg/mL (32.5 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1215 mL	10.6076 mL	21.2152 mL
5 mM	0.4243 mL	2.1215 mL	4.243 mL
10 mM	0.2122 mL	1.0608 mL	2.1215 mL
50 mM	0.0424 mL	0.2122 mL	0.4243 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.

Reference

Tsiang M, et al. Antiviral Activity of Bictegravir (GS-9883), a Novel Potent HIV-1 Integrase Strand Transfer Inhibitor with an Improved Resistance Profile. Antimicrob Agents Chemother. 2016 Nov 21;60(12):7086-7097.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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