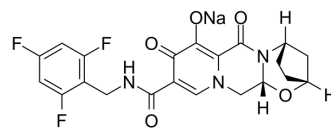


Bictegravir sodium

Cat. No.:	HY-17605A
CAS No.:	1807988-02-8
Molecular Formula:	C ₂₁ H ₁₇ F ₃ N ₃ NaO ₅
Molecular Weight:	471.36
Target:	HIV Integrase; HIV
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (35.37 mM); ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1215 mL	10.6076 mL	21.2152 mL
	5 mM	0.4243 mL	2.1215 mL	4.2430 mL
	10 mM	0.2122 mL	1.0608 mL	2.1215 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Bictegravir 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^[1].

IC₅₀ & Target

HIV-1

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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Science. 2020 Feb 14;367(6479):806-810.
- J Infect Dis. 2022 Sep 19;jiac386.

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- Antimicrob Agents Chemother. 2019 Dec 20;64(1):e01717-19.
 - Pharmaceutics. 2022, 14(9), 1761.
 - Farmaceutická fakulta v Hradci Králové. 2020 Jun.

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REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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