
Product Data Sheet

Product Name: Bictegravir sodium

Cat. No.: GC68478

Chemical Properties

Cas. No. 1807988-02-8

Formula $C_{21}H_{17}F_3N_3NaO_5$

M.Wt 471.36

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

Storage 4°C, away from moisture and light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

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].

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].

[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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