Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Bictegravir

Catalog No: tcsc0014685

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1611493-60-7

Formula:
$C_{21}H_{18}F_3N_3O_5$

Pathway:
Metabolic Enzyme/Protease;Anti-infection

Target:
HIV Integrase;HIV

Purity / Grade:
>98%

Solubility:
DMSO : 83.3 mg/mL (185.37 mM; Need ultrasonic and warming)

Alternative Names:
GS-9883

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Observed Molecular Weight:
449.38

Product Description

Bictegravir is a novel, potent inhibitor of **HIV-1 integrase** with an **IC_{50}** of 7.5 nM.

IC50 & Target: IC50: 7.5 nM (HIV-1 integrase)[1]

In Vitro: Bictegravir (BIC) inhibits the strand transfer activity with an IC_{50} of 7.5± 0.3 nM. Relative to its inhibition of strand transfer activity, Bictegravir is a much weaker inhibitor of 3′-processing activity of HIV-1 IN, with an IC_{50} of 241±51 nM. Bictegravir enhances the accumulation of 2-LTR circles ~5-fold relative to the mock-treated control and reduces the amount of authentic integration products in infected cells by 100-fold. Bictegravir potently inhibits HIV-1 replication in both MT-2 and MT-4 cells with EC_{50}s of 1.5 and 2.4 nM, respectively. Bictegravir exhibits potent antiviral effects in both primary $CD4^+$ T lymphocytes and monocyte-derived macrophages, with EC_{50}s of 1.5±0.3 nM and 6.6±4.1 nM, respectively, which are comparable to values obtained in T-cell lines[1].