Web: www.taiclone.com
Tel: +886-2-2735-9682
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# 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].