

Product Name : Bictegravir

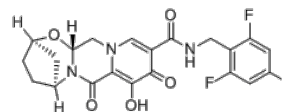
Synonyms : GS 9883

Cat No. : M12333

CAS Number : 1611493-60-7

Molecular Formula : C₂₁H₁₈F₃N₃O₅

Formula Weight : 449.39



Chemical Name : (2R,5S,13aR)-8-hydroxy-7,9-dioxo-N-(2,4,6-trifluorobenzyl)-2,3,4,5,7,9,13,13a-octahydro-2,5-methanopyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazepine-10-carboxamide

Description : Bictegravir (GS 9883) is a novel potent HIV-1 integrase (IN) that specifically targets IN strand transfer activity with IC₅₀ of 7.5 nM; exhibits potent and selective in vitro antiretroviral activity in both T-cell lines and primary human T lymphocytes with EC₅₀ of 1.5-2.4 nM, with minimal cytotoxicity; exhibits synergistic in vitro antiviral effects in pairwise combinations with tenofovir alafenamide, emtricitabine, or darunavir and maintains potent antiviral activity against HIV-1 variants. HIV Infection Phase 3 Clinical

Pathway : Microbiology/Virology

Target : HIV

Receptor : HIV-1 integrase

Solubility : DMSO: 80 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)

SMILES : C1CC2CC1N3C(O2)CN4C=C(C(=O)C(=C4C3=O)O)C(=O)NCC5=C(C=C(C=C5F)F)F

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Tsiang M, et al. Antimicrob Agents Chemother. 2016 Nov 21;60(12):7086-7097. | 2. Gallant JE, et al. J Acquir Immune Defic Syndr. 2017 May 1;75(1):61-66. | 3. Hassounah SA, et al. Antimicrob Agents Chemother. 2017 Nov 22;61(12). pii: e01695-17.