



Product Information

HIV integrase inhibitor Bictegravir, Purity ≥98%

Cat. No.: X24-07-ZQ079

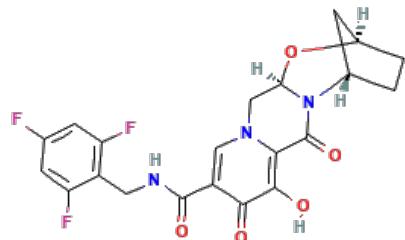
Size: 5 mg; 10 mg; 50 mg; 100 mg

CAS Number: 1611493-60-7

Compound CID: 90311989

Synonym: 1611493-60-7; HIV integrase inhibitor; GS-9883; GS 9883; GS9883

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Bictegravir, soluble in DMSO and insoluble in ethanol and water, blocks the action of the integrase enzyme, which is crucial for the HIV virus to integrate its genetic material into the host cell's DNA, thereby impeding the virus's ability to replicate and spread.
Molecular Weight	449.38
Molecular Formula	C ₂₁ H ₁₈ F ₃ N ₃ O ₅
IUPAC Name	(1S,11R,13R)-5-hydroxy-3,6-dioxo-N-[(2,4,6-trifluorophenyl)methyl]-12-oxa-2,9-diazatetracyclo[11.2.1.02,11.04,9]hexadeca-4,7-diene-7-carboxamide
InChI	InChI=1S/C21H18F3N3O5/c22-9-3-14(23)12(15(24)4-9)6-25-20(30)13-7-26-8-16-27(10-1-2-11(5-10)32-16)21(31)17(26)19(29)18(13)28/h3-4,7,10-11,16,29H,1-2,5-6,8H2,(H,25,30)/t10-,11+,16+/m0/s1
InChI Key	SOLUWJRYJLAZCX-LYOVBCGYSA-N
Canonical SMILES	C1CC2CC1N3C(O2)CN4C=C(C(=O)C(=C4C3=O)O)C(=O)NCC5=C(C=C(C=C5F)F)F
Isomeric SMILES	C1C[C@H]2C[C@H]1N3[C@H](O2)CN4C=C(C(=O)C(=C4C3=O)O)C(=O)NCC5=C(C=C(C=C5F)F)F
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 86 mg/mL (191.37 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade



Applications

Bictegravir is utilized in studies involving HIV-1 to investigate its effectiveness as an integrase strand transfer inhibitor, supporting research on reducing viral integration into host DNA.

Storage

Store at -20°C, and keep desiccated.
