

Product Name : Dolutegravir sodium

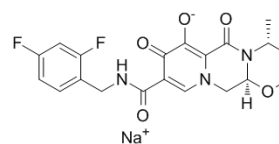
Synonyms : GSK-1349572A

Cat No. : M10249

CAS Number : 1051375-19-9

Molecular Formula : C₂₀H₁₈F₂N₃NaO₅

Formula Weight : 441.36



Chemical Name : 2H-Pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazine-9-carboxamide, N-[(2,4-difluorophenyl)methyl]-3,4,6,8,12,12a-hexahydro-7-hydroxy-4-methyl-6,8-dioxo-, sodium salt (1:1), (4R,12aS)-

Description : Dolutegravir sodium (GSK-1349572A) is a potent, next-generation HIV integrase (IN) inhibitor, inhibits HIV-1 integrase-catalyzed strand transfer with IC₅₀ of 2.7 nM; inhibits HIV-1 replication in PBMCs, MT-4 cells and in the PHIV assay with EC₅₀ of 0.51, 0.71 and 2.2 nM, respectively; demonstrates activity against site-directed molecular clones containing the raltegravir-resistant signature mutations Y143R, Q148K, N155H, and G140S/Q148H; exhibits excellent anti-HIV activity in combination with representative approved antiretroviral agents in vivo. HIV Infection Approved

Pathway : Microbiology/Virology

Target : HIV

Receptor : HIV integrase

Solubility : DMSO: ≥ 4.4 mg/mL; DMSO: < 12.6 mg/mL

SMILES : C1C@@H1CCO[C@@H]2N1C(=O)C3=C(C(=O)C(=CN3C2)C(=O)NCC4=C(C=C(C=C4)F)F)[O-].[Na+]

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Kobayashi M, et al. Antimicrob Agents Chemother. 2011 Feb;55(2):813-21. | 2. Garrido C, et al. Antiviral Res. 2011 Jun;90(3):164-7. | 3. Hightower KE, et al. Antimicrob Agents Chemother. 2011 Oct;55(10):4552-9. | 4. Hare S, et al. Mol Pharmacol. 2011 Oct;80(4):565-72.