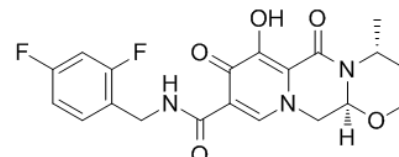


Product Name : Dolutegravir
Cat. No. : PC-43417
CAS No. : 1051375-16-6
Molecular Formula : C₂₀H₁₉F₂N₃O₅
Molecular Weight : 419.3788
Target : HIV
Solubility : DMSO: 10 mg/mL



Biological Activity

Dolutegravir (GSK1349572) 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

References

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

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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