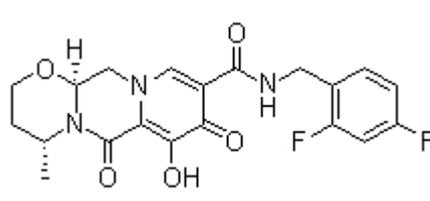


Product Introduction

Dolutegravir (GSK1349572)

S/GSK1349572 (GSK1349572) is a two-metal-binding HIV **integrase** inhibitor with **IC₅₀** of 2.7 nM, modest activity against raltegravir-resistant signature mutants Y143R, Q148K, N155H, and G140S/Q148H. Phase 3.

Technical Data:

Molecular Weight (MW):	419.38	
Formula:	C ₂₀ H ₁₉ F ₂ N ₃ O ₅	
Solubility (25°C)	DMSO 84 mg/mL	
* <1 mg/ml means slightly soluble or insoluble:	Water <1 mg/mL	
	Ethanol <1 mg/mL	
Purity:	>98%	
Storage:	3 years -20°C Powder 6 months-80°C in DMSO	
CAS No.:	1051375-16-6	

Biological Activity

S/GSK1349572 shows the potent inhibitory effect on nine clinical isolates from integrase inhibitor-naïve HIV-2-infected patients with EC₅₀ ranging from 0.2 nM -1.4 nM. ^[1] In vitro, S/GSK1349572 inhibits recombinant HIV-1 integrase-catalyzed strand transfer with IC₅₀ of 2.7 nM. Furthermore, S/GSK1349572 potently inhibits HIV replication in cells such as peripheral blood mononuclear cells (PBMCs), MT-4 cells

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and CIP4 cells infected with a self-inactivating PHIV lentiviral vector with EC50 of 0,51 nM, 0.71 nM and 2.2 nM, respectively. [2] In vitro, S/GSK1349572 exhibits potent activity against five different nonnucleoside reverse transcription inhibitor--resistant or nucleoside reverse transcription inhibitor--resistant viruses with EC50 ranging from 1.3 nM -2.1 nM. Similarly to that against wild-type virus, S/GSK1349572 shows equivalent activity against two protease inhibitor-resistant viruses with EC50 of 0.36 nM and 0.37 nM, respectively. [2]

A next-generation and two-metal-binding HIV integrase strand transfer inhibitor.

References

[1] Vézinet F, et al. AIDS. 2010, 24(17), 2753-275

[2] Kobayashi M, et al. Antimicrob Agents Chemother. 2011, 55(2), 813-821.



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