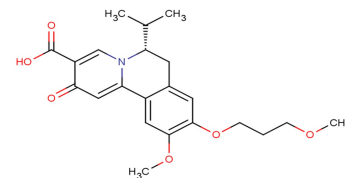


RG7834

Chemical Properties

CAS No.:	2072057-17-9
Formula:	C ₂₂ H ₂₇ NO ₆
Molecular Weight:	401.45
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	RG7834 is a highly selective and orally bioavailable inhibitor of HBV(HBsAg and HBeAg and HBV DNA with IC ₅₀ s of 2.8, 2.6, and 3.2 nM, respectively, in dHepaRG Cells).
Targets(IC ₅₀)	HBsAg: 2.8 nM HBeAg: 2.6 nM HBV DNA: 3.2 nM
In vitro	RG7834 ((S)-(+)-64) is a highly selective and orally bioavailable inhibitor of HBV, RG7834 ((S)-(+)-64) potently inhibits HBV antigens (both HBsAg and HBeAg) and HBV DNA, with IC ₅₀ s of 2.8, 2.6, and 3.2 nM, respectively, in dHepaRG Cells. RG7834 has no activity against CYP3A4, CYP2D6, CYP2C9 (IC ₅₀ s >50 μM) or hERG channel.
In vivo	In HBV-infected human liver chimeric uPA-SCID mice, RG7834 shows anti-HBV efficacy. RG7834 (2, 14.5 mg/kg, p.o.) exhibits good oral bioavailability, and with a half-life of 4.9 h in mice.

Solubility Information

Solubility	DMSO: 125 mg/mL (311.37 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.491 mL	12.455 mL	24.91 mL
5 mM	0.498 mL	2.491 mL	4.982 mL
10 mM	0.249 mL	1.245 mL	2.491 mL
50 mM	0.05 mL	0.249 mL	0.498 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Han X, et al. Discovery of RG7834: The First-in-Class Selective and Orally Available Small Molecule Hepatitis B Virus Expression Inhibitor with Novel Mechanism of Action. J Med Chem. 2018 Oct 4.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481