Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

RO-9187

Catalog No: tcsc0954

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
876708-03-1

Formula:
$C_9H_{12}N_6O_5$

Pathway:
Anti-infection

Target:
HCV

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
284.23

Product Description

RO-9187 is a potent inhibitor of **HCV** virus replication with an **IC_{50}** of 171 nM.

IC50 & Target: IC50: 171 nM (HCV)[1]

In Vitro:

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RO-9187 is excellent substrates for deoxycytidine kinase and is phosphorylated with efficiencies up to 3-fold higher than deoxycytidine. RO-9187 inhibits RNA synthesis by HCV polymerases from either HCV genotypes 1a and 1b or containing S96T or S282T point mutations with similar potencies, suggesting no cross-resistance with either R1479 (4′-azidocytidine) or 2′-C-methyl nucleosides. The formation of RO-9187-TP increased in a time- and dose-dependent manner. The maximal triphosphate concentration at 24 h is 87 pmol/106 cells with half-maximal triphosphate formation achieved at 12 μM RO-9187[1].

In Vivo: Plasma exposures of RO-9187 in rats increase in a dose-dependent manner between 10 and 2000 mg/kg after oral dosing. Plasma concentrations of 1.4 and 26 μM (390 and 7454 ng/mL) are achieved in rats and dogs at the 10 mg/kg dose level, respectively. Plasma concentrations up to 57 μM are achieved in rats dosed with 2000 mg/kg/day[1].