Product Data Sheet

Product Name: BMS 986094
Cat. No.: GC50633

Chemical Properties

Cas. No.	1234490-83-5		
SMILES	COC1=C2N=CN([C@@H]3O[C@H](CO[P](=O)(N[C@@H](C)C(=O)OCC(C)(C)C)OC4=CC=CC5=C4C=CC=C5)[C@@H](O)[C@@]3(C)O)C2=NC(N)=N1		
Formula	$C_{30}H_{39}N_6O_9P$	M.Wt	658.65
Solubility	DMSO : 250 mg/mL (379.57 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	BMS 986094		

Background

Potent hepatitis C virus (HCV) replication inhibitor (EC50 = 35 nM). Is rapidly metabolized in primary human hepatocytes to 2'-C-methyl guanosine triphosphate, an inhibitor of HCV RNA-dependent RNA polymerase NS5b. Displays 10-fold reduction in potency in S282T mutant-expressing versus wild-type replicons. Exhibits synergy with Ribavirin . Orally bioavailable.

Vernachio et al (2011) INX-08189, a phosphoramidate prodrug of 6-O-methyl-2'-C-methyl guanosine, is a potent inhibitor of hepatitis C virus replication with excellent pharmacokinetic and pharmacodynamic properties. Antimicrob.Agents Chemother. 55 1843 PMID:21357300 |McGuigan et al (2010) Design, synthesis and evaluation of a novel double pro-drug: INX-08189. A new clinical candidate for hepatitis C virus. Bioorg.Med.Chem.Lett. 20 4850 PMID:20637609

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