2'-C-Methyladenosine

Cat. No.: HY-125371

CAS No.: 15397-12-3

Molecular Formula: $C_{11}H_{15}N_5O_4$

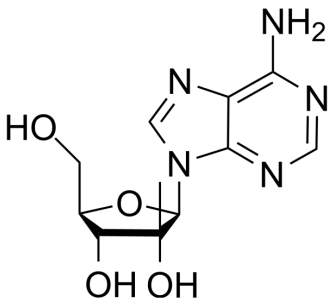
Molecular Weight: 281.27

Target: HCV

Pathway: Anti-infection

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 31.25 mg/mL (111.10 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5553 mL	17.7765 mL	35.5530 mL
	5 mM	0.7111 mL	3.5553 mL	7.1106 mL
	10 mM	0.3555 mL	1.7777 mL	3.5553 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

2'-C-Methyladenosine is an inhibitor of hepatitis C virus (HCV) replication. 2'-C-Methyladenosine inhibits HCV replicon and NS5B-catalyzed RNA synthesis with IC_{50} values of 0.3μM and 1.9 μM, respectively. 2'-C-Methyladenosine also potently inhibits LRV1 in Leishmania guyanensis (Lgy) and Leishmania braziliensis[1][2].

IC_{50} & Target

IC50: 0.3μM (HCV replicon); 1.9 μM (NS5B)[1]

In Vivo

2'-C-Methyladenosine has inhibitory potency for HCV replicon in HB110A cells with an IC_{50} values of 0.3μM[1].

2'-C-Methyladenosine inhibits NS5B-catalyzed RNA synthesis with an IC_{50} values of 1.9 μM[1].

2′-C-methyladenosine potently inhibits LRV1 in Leishmania guyanensis (Lgy) and Leishmania braziliensis[2]

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Steven S Carroll, et al. Inhibition of hepatitis C virus RNA replication by 2'-modified nucleoside analogs. J Biol Chem. 2003 Apr 4;278(14):11979-84.

[2]. John I Robinson, et al. Concentration of 2'C-methyladenosine triphosphate by Leishmania guyanensis enables specific inhibition of Leishmania RNA virus 1 via its RNA polymerase. J Biol Chem. 2018 Apr 27;293(17):6460-6469.

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