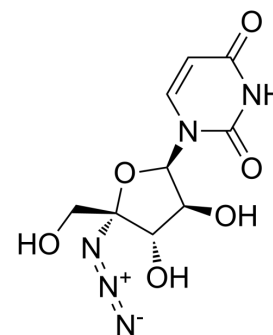


Nucleoside-Analog-2

Cat. No.:	HY-77652		
CAS No.:	876708-01-9		
Molecular Formula:	C ₉ H ₁₁ N ₅ O ₆		
Molecular Weight:	285.21		
Target:	Nucleoside Antimetabolite/Analog; HCV		
Pathway:	Cell Cycle/DNA Damage; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 33.33 mg/mL (116.86 mM; Need ultrasonic)
 H₂O : 20 mg/mL (70.12 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.5061 mL	17.5307 mL	35.0615 mL
	5 mM	0.7012 mL	3.5061 mL	7.0123 mL
	10 mM	0.3506 mL	1.7531 mL	3.5061 mL

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

In Vivo

- Add each solvent one by one: PBS
 Solubility: 16.67 mg/mL (58.45 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: 2.5 mg/mL (8.77 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 2.5 mg/mL (8.77 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: 2.5 mg/mL (8.77 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Nucleoside-Analog-2 is a 4'-Azidocytidine analogue against Hepatitis C virus (HCV) replication. Nucleoside-Analog-2 is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.

In Vitro

Nucleoside-Analog-2 is a 4'-Azidocytidine analogue against Hepatitis C virus (HCV) replication. Reference to compound 12^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Antiviral Res. 2019 Oct;170:104570.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Smith DB, et al. The design, synthesis, and antiviral activity of 4'-azidocytidine analogues against hepatitis C virus replication: the discovery of 4'-azidoarabincytidine. J Med Chem. 2009 Jan 8;52(1):219-23.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA