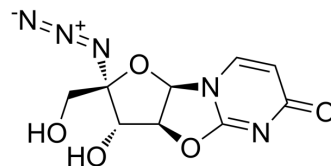


## Nucleoside-Analog-1

Cat. No.:	HY-77651		
CAS No.:	876707-99-2		
Molecular Formula:	C <sub>9</sub> H <sub>9</sub> N <sub>5</sub> O <sub>5</sub>		
Molecular Weight:	267.2		
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	H <sub>2</sub> O : 1.89 mg/mL (7.07 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.7425 mL	18.7126 mL	37.4251 mL
		5 mM	0.7485 mL	3.7425 mL	7.4850 mL
		10 mM	---	---	---
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 8.33 mg/mL (31.18 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	Nucleoside-Analog-1 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.
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### CUSTOMER VALIDATION

- Antiviral Res. 2019 Oct;170:104570.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## 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.
- [2]. Smith DB, et al. The design, synthesis, and antiviral activity of monofluoro and difluoro analogues of 4'-azidocytidine against hepatitis C virus replication: the discovery of 4'-azido-2'-deoxy-2'-fluorocytidine and 4'-azido-2'-dideoxy-2',2'-difluorocytidine. J Med Chem. 2009 May 14;52(9):2971-8.
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**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](mailto:tech@MedChemExpress.com)

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