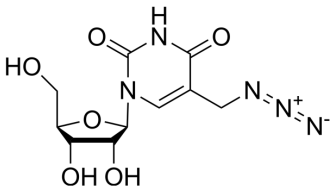
5-Azidomethyl-uridine

Cat. No.:	HY-151817		
CAS No.:	24751-67-5		
Molecular Formula:	$C_{10}H_{13}N_5O_6$		
Molecular Weight:	299.24		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (417.72 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.3418 mL	16.7090 mL	33.4180 mL
	5 mM	0.6684 mL	3.3418 mL	6.6836 mL
	10 mM	0.3342 mL	1.6709 mL	3.3418 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (6.95 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.95 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.95 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

5-Azidomethyl-uridine is a click chemistry reagent containing an azide group.The azide function is widely used for coupling to alkyne-containing fragments via the renowned Click reaction[1]. 5-Azidomethyl-uridine 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.

REFERENCES

[1]. Jiang X, et al. Recent applications of click chemistry in drug discovery. Expert Opin Drug Discov. 2019 Aug;14(8):779-789.

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