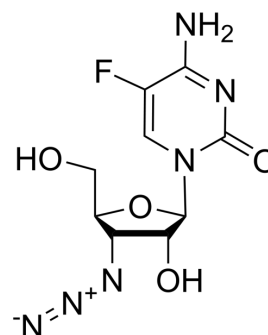


## 3'-Azido-3'-deoxy-5-fluorocytidine

Cat. No.:	HY-111641		
CAS No.:	2095417-18-6		
Molecular Formula:	C <sub>9</sub> H <sub>11</sub> FN <sub>6</sub> O <sub>4</sub>		
Molecular Weight:	286.22		
Target:	Nucleoside Antimetabolite/Analog		
Pathway:	Cell Cycle/DNA Damage		
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 : 140 mg/mL (489.13 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.4938 mL	17.4691 mL	34.9382 mL
	5 mM	0.6988 mL	3.4938 mL	6.9876 mL
	10 mM	0.3494 mL	1.7469 mL	3.4938 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.33 mg/mL (8.14 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.33 mg/mL (8.14 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.33 mg/mL (8.14 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

3'-Azido-3'-deoxy-5-fluorocytidine (Compound 12) is a cytidine derivative. 3'-Azido-3'-deoxy-5-fluorocytidine 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

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

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