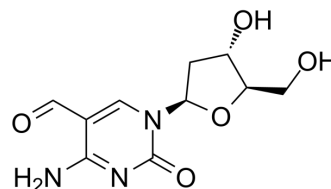


2'-Deoxy-5-formylcytidine

Cat. No.:	HY-126861		
CAS No.:	137017-45-9		
Molecular Formula:	C ₁₀ H ₁₃ N ₃ O ₅		
Molecular Weight:	255.23		
Target:	Reactive Oxygen Species		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
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 : 100 mg/mL (391.80 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.9180 mL	19.5902 mL	39.1803 mL
	5 mM	0.7836 mL	3.9180 mL	7.8361 mL
	10 mM	0.3918 mL	1.9590 mL	3.9180 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: ≥ 2.5 mg/mL (9.80 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (9.80 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (9.80 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2'-Deoxy-5-formylcytidine is an effective internal triplet photosensitizer in DNA. 2'-Deoxy-5-formylcytidine could act as a new hot spot in DNA photodamage^[1].

REFERENCES

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

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