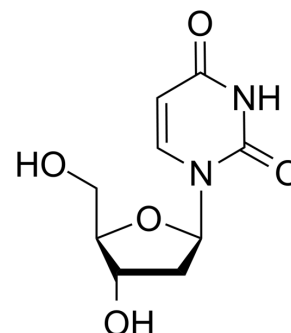


2'-Deoxyuridine

Cat. No.:	HY-D0186		
CAS No.:	951-78-0		
Molecular Formula:	C ₉ H ₁₂ N ₂ O ₅		
Molecular Weight:	228.2		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (438.21 mM; Need ultrasonic)
 DMSO : 100 mg/mL (438.21 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		4.3821 mL	21.9106 mL	43.8212 mL
	5 mM		0.8764 mL	4.3821 mL	8.7642 mL
	10 mM		0.4382 mL	2.1911 mL	4.3821 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (438.21 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (9.11 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (9.11 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (9.11 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2'-Deoxyuridine could increase chromosome breakage and results in a decreased thymidylate synthetase activity. A known use of 2'-Deoxyuridine is as a precursor in the synthesis of Edoxudine.

IC₅₀ & Target

Microbial Metabolite

Human Endogenous Metabolite

REFERENCES

[1]. Reidy JA, et al. Deoxyuridine increases folate-sensitive fragile site expression in human lymphocytes. *Am J Med Genet.* 1987 Jan;26(1):1-5.

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

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