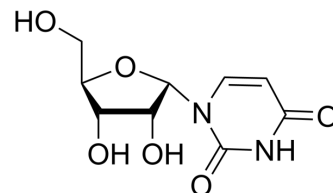


1-(α -D-ribofuranosyl)uracil

Cat. No.:	HY-W128112		
CAS No.:	3258-07-9		
Molecular Formula:	C ₉ H ₁₂ N ₂ O ₆		
Molecular Weight:	244.2		
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 : 100 mg/mL (409.50 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.0950 mL	20.4750 mL	40.9500 mL
	5 mM		0.8190 mL	4.0950 mL	8.1900 mL
	10 mM		0.4095 mL	2.0475 mL	4.0950 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: \geq 2.5 mg/mL (10.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline)
Solubility: \geq 2.5 mg/mL (10.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: \geq 2.5 mg/mL (10.24 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

1-(α -D-ribofuranosyl)uracil is a purine nucleoside analog. Purine nucleoside analogs have broad antitumor activity targeting indolent lymphoid malignancies. Anticancer mechanisms in this process rely on inhibition of DNA synthesis, induction of apoptosis, etc^[1].

REFERENCES

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

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