Proteins

Screening Libraries

Product Data Sheet

5-Bromouridine

Cat. No.: HY-W009163 CAS No.: 957-75-5 Molecular Formula: C₉H₁₁BrN₂O₆ Molecular Weight: 323.1

Target: Nucleoside Antimetabolite/Analog

Pathway: Cell Cycle/DNA Damage

Storage: Powder -20°C 3 years

> In solvent -80°C 6 months

> > -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (309.50 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.0950 mL	15.4751 mL	30.9502 mL
	5 mM	0.6190 mL	3.0950 mL	6.1900 mL
	10 mM	0.3095 mL	1.5475 mL	3.0950 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: ≥ 2.5 mg/mL (7.74 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.74 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

5-Bromouridine 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

11 Robak T Robak P Purine nu	icleoside analogs in the treatment o	of rarer chronic lymphoid leuke	emias. Curr Pharm Des. 2012;18(23):337	3-88	
ij. Nobak i, Nobak i . i dilile ild	recoside analogs in the treatment e	Traici cinonic tymphola team	51111d3. Cu11 1 11d1111 DC3. 2012,10(23).331	J 00.	
Caution: Product has not been fully validated for medical applications. For research use only.					
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