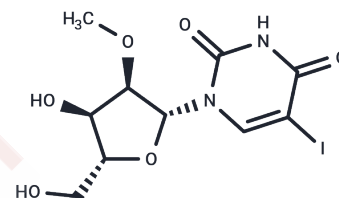


2'-O-Methyl-5-iodouridine

Chemical Properties

CAS No. :	34218-84-3
Formula:	C ₁₀ H ₁₃ N ₂ O ₆
Molecular Weight:	384.12
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	2'-O-Methyl-5-iodouridine (5-Iodo-2'-O-methyluridine) is a purine nucleoside analog that targets malignant tumors of the inert lymphatic system and possesses a broad spectrum of antitumor activity. The anticancer mechanism of 2'-O-Methyl-5-iodouridine is dependent on the inhibition of DNA synthesis and induction of apoptosis.
Targets(IC50)	Apoptosis, Nucleoside Antimetabolite/Analog, DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 55 mg/mL (143.18 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6034 mL	13.0168 mL	26.0335 mL
5 mM	0.5207 mL	2.6034 mL	5.2067 mL
10 mM	0.2603 mL	1.3017 mL	2.6034 mL
50 mM	0.0521 mL	0.2603 mL	0.5207 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Gophane DB, et al. A semi-rigid isoindoline-derived nitroxide spin label for RNA. *Org Biomol Chem.* 2018;16(5): 816-824.
- Robak T, et al. Purine nucleoside analogs in the treatment of rarer chronic lymphoid leukemias. *Curr Pharm Des.* 2012;18(23):3373-3388.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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