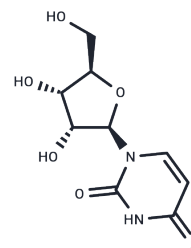


4-Thiouridine

Chemical Properties

CAS No. :	13957-31-8
Formula:	C ₉ H ₁₂ N ₂ O ₅ S
Molecular Weight:	260.27
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	4-Thiouridine (4-SU) is a photoactivatable ribonucleoside analog that is widely used for RNA analysis, including short-range RNA-RNA crosslinking and nascent RNA labeling. The crosslinking thio moiety is attached directly to the nucleotide base, thus 4-SU
Targets(IC50)	Nucleoside Antimetabolite/Analog,Others

Solubility Information

Solubility	DMSO: 257 mg/mL (987.44 mM),Sonication is recommended. PBS (pH 7.2): 5 mg/mL (19.21 mM),Sonication is recommended. Ethanol: 2 mg/mL (7.68 mM),Sonication is recommended. DMF: 10 mg/mL (38.42 mM),Sonication is recommended. H ₂ O: 20 mg/mL (76.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (19.21 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8422 mL	19.2108 mL	38.4216 mL
5 mM	0.7684 mL	3.8422 mL	7.6843 mL
10 mM	0.3842 mL	1.9211 mL	3.8422 mL
50 mM	0.0768 mL	0.3842 mL	0.7684 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

Bernd Rädle, et al. Metabolic labeling of newly transcribed RNA for high resolution gene expression profiling of RNA synthesis, processing and decay in cell culture. *J Vis Exp.* 2013 Aug 8;(78):50195.

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