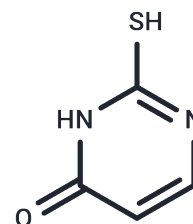


2-Thiouracil

Chemical Properties

CAS No. :	141-90-2
Formula:	C ₄ H ₄ N ₂ O ₂ S
Molecular Weight:	128.15
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-Thiouracil (Deracil) is a thiolated uracil derivative that is a known anti-hyperthyroid agent.
Targets(IC50)	NO Synthase,Thyroid hormone receptor(THR)
In vivo	2-Thiouracil is a selective neuronal nitric oxide synthase inhibitor capable of antagonizing tetrahydrobiopterin-dependent enzymatic activation.

Solubility Information

Solubility	DMSO: 55 mg/mL (429.18 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (25.75 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	7.8034 mL	39.0168 mL	78.0336 mL
5 mM	1.5607 mL	7.8034 mL	15.6067 mL
10 mM	0.7803 mL	3.9017 mL	7.8034 mL
50 mM	0.1561 mL	0.7803 mL	1.5607 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

Palumbo A, et al. FEBS Lett, 2000, 485(2-3), 109-112.

Napolitano A, et al. J Med Chem, 1996, 39(26), 5192-5201.

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