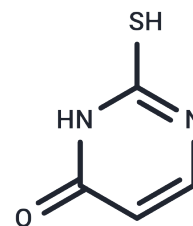


2-Thiouracil

Chemical Properties

CAS No. :	141-90-2
Formula:	C ₄ H ₄ N ₂ OS
Molecular Weight:	128.15
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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)
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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.

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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