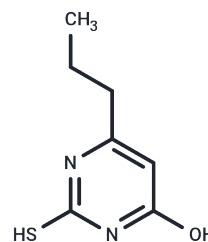


Propylthiouracil

Chemical Properties

CAS No. :	51-52-5
Formula:	C7H10N2OS
Molecular Weight:	170.23
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	Propylthiouracil (6-n-Propylthiouracil) is a thyroid peroxidase inhibitor and also a 5' - deiodinase inhibitor.
Targets(IC50)	Others,Thyroid hormone receptor(THR)

Solubility Information

Solubility	DMSO: 250 mg/mL (1468.6 mM),Sonication is recommended. Ethanol: 16 mg/mL (93.99 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: 10 mg/mL (58.74 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (58.74 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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	5.8744 mL	29.372 mL	58.7441 mL
5 mM	1.1749 mL	5.8744 mL	11.7488 mL
10 mM	0.5874 mL	2.9372 mL	5.8744 mL
50 mM	0.1175 mL	0.5874 mL	1.1749 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

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Zamoner A, et al. J Mol Endocrinol,2008, 40(3), 125-135.
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Pantos C, et al. J Endocrinol,2003, 178(3), 427-435.
Gilbert ME, et al. Brain Res Dev Brain Res,2003, 145(1), 19-29.

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