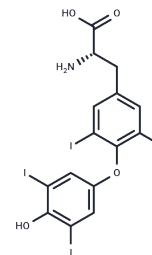


L-Thyroxine

Chemical Properties

CAS No. :	51-48-9
Formula:	C ₁₅ H ₁₁ I ₄ NO ₄
Molecular Weight:	776.87
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	L-Thyroxine (NSC 36397) is the major hormone derived from the thyroid gland. L-Thyroxine (NSC 36397) is synthesized via the iodination of tyrosines (MONOIODOTYROSINE) and the coupling of iodotyrosines (DIIODOTYROSINE) in the THYROGLOBULIN. L-Thyroxine (NSC 36397) is released from thyroglobulin by proteolysis and secreted into the blood. L-Thyroxine (NSC 36397) is peripherally deiodinated to form TRIIODOTHYRONINE which exerts a broad spectrum of stimulatory effects on cell metabolism.
Targets(IC50)	Endogenous Metabolite,Thyroid hormone receptor(THR)

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 93 mg/mL (119.71 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: 3.3 mg/mL (4.25 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	1.2872 mL	6.4361 mL	12.8722 mL
5 mM	0.2574 mL	1.2872 mL	2.5744 mL
10 mM	0.1287 mL	0.6436 mL	1.2872 mL
50 mM	0.0257 mL	0.1287 mL	0.2574 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

Marazuela M, et al. Thyroid. 2008 Oct; 18(10):1119-23.

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