

D-Thyroxine

Chemical Properties

CAS No. : 51-49-0

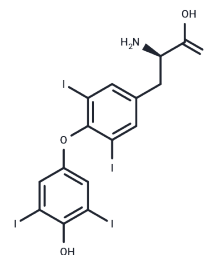
Formula: C₁₅H₁₁I₄NO₄

Molecular Weight: 776.87

Storage: Keep away from direct sunlight, Store at low temperature, Store under nitrogen

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	D-Thyroxine (Dextroxin) could lower cholesterol and also increases hepatic lipase which in turn improves utilization of triglycerides, leading to improve apolipoprotein E cholesterol particles.
Targets(IC50)	Others, Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble), DMSO: 55 mg/mL (70.8 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: 2 mg/mL (2.57 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

- Schwartz ID, Bercu BB. Dextrothyroxine in the treatment of generalized thyroid hormone resistance in a boy homozygous for a defect in the T3 receptor. *Thyroid*. 1992 Spring;2(1):15-9. PubMed PMID: 1525565.
- Krawczynska H, Wojcik-Musialek K, Illig R. 10 years of successful treatment with dextrothyroxine in a girl with TSH-induced hyperthyroidism. *Horm Res*. 1991;35(5):213-6. PubMed PMID: 1802825.
- Hazenbergh HJ, Muller CJ, Kerckhoffs HP, Erkelens DW. Dextrothyroxine induced hyperthyroidism in a patient with heterozygous familial hypercholesterolaemia. *Neth J Med*. 1987 Oct;31(3-4):117-21. PubMed PMID: 3683682.
- Hankins JH, Heise CM, Cowan RJ. Iatrogenic hyperthyroidism secondary to dextrothyroxine administration. *Clin Nucl Med*. 1984 Jan;9(1):17-9. PubMed PMID: 6697613.

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