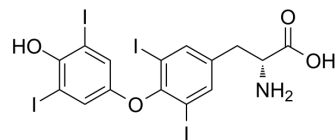


## D-Thyroxine

Cat. No.:	HY-A0152
CAS No.:	51-49-0
Molecular Formula:	C <sub>15</sub> H <sub>11</sub> I <sub>4</sub> NO <sub>4</sub>
Molecular Weight:	776.87
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (160.90 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (2.68 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (2.68 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	D-Thyroxine (D-T4) is a thyroid hormone that can inhibit TSH secretion. D-Thyroxine can be used for the research of hypercholesterolemia <sup>[1][2]</sup> .
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### REFERENCES

- [1]. Bantle JP, et, al. Comparison of effectiveness of thyrotropin-suppressive doses of D- and L-thyroxine in treatment of hypercholesterolemia. Am J Med. 1984 Sep;77(3):475-81.
- [2]. Gless KH, et, al. Influence of D-thyroxine on plasma thyroid hormone levels and TSH secretion. Horm Metab Res. 1977 Jan;9(1):69-73.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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