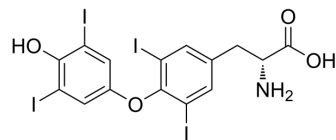


## D-Thyroxine

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



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 125 mg/mL (160.90 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.2872 mL	6.4361 mL	12.8722 mL
		<b>5 mM</b>		0.2574 mL	1.2872 mL	2.5744 mL
<b>10 mM</b>		0.1287 mL	0.6436 mL	1.2872 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	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

<b>Description</b>	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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