

## Tiratricol

## Chemical Properties

CAS No. : 51-24-1

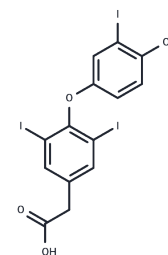
Formula: C<sub>14</sub>H<sub>9</sub>I<sub>3</sub>O<sub>4</sub>

Molecular Weight: 621.93

Storage: The compound is unstable in solution. Please use soon

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Tiratricol (3,3',5-Triiodothyroacetic acid) is a metabolite of T3 and T4 thyroid hormones; promoted for hyperlipidemia, localized lipodystrophy, and obesity. Tiratricol has been used in trials studying the treatment of Allan-Herndon-Dudley Syndrome.
Targets(IC50)	Anti-infection,Thyroid hormone receptor(THR),TNF
In vivo	Research indicates that Tiratricol can reduce thyroid enlargement and mitigate atrophy caused by decreased use of corticosteroid hormones. Furthermore, Tiratricol is effective in treating thyroid hormone resistance syndrome and, in combination with thyroxine, can suppress the production of thyroid-stimulating hormone in patients with thyroid cancer.

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble),The compound is unstable in solution. Please use soon. DMSO: 93 mg/mL (149.53 mM),Sonication is recommended. The compound is unstable in solution. Please use soon. Ethanol: 93 mg/mL (149.53 mM),Sonication is recommended. The compound is unstable in solution. Please use soon. (< 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 (5.31 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

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	1mg	5mg	10mg
1 mM	1.6079 mL	8.0395 mL	16.079 mL
5 mM	0.3216 mL	1.6079 mL	3.2158 mL
10 mM	0.1608 mL	0.8039 mL	1.6079 mL
50 mM	0.0322 mL	0.1608 mL	0.3216 mL

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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

Carvalho GA, et al. Arq Bras Endocrinol Metabol, 2004, 48(1), 83-92.

Brenta G, et al. J Clin Endocrinol Metab, 2003, 88(11), 5287-5292.

Yazdanparast P, et al. Thyroid, 2006, 16(11), 1157-1162.

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