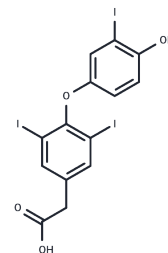


Tiratricol

Chemical Properties

CAS No. :	51-24-1
Formula:	C ₁₄ H ₉ I ₃ O ₄
Molecular Weight:	621.93
Appearance:	no data available
Storage:	Powder: -20°C for 3 years



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)	Thyroid hormone receptor(THR)
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 ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 93 mg/mL (149.53 mM),Sonication is recommended. Ethanol: 93 mg/mL (149.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	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

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.

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.