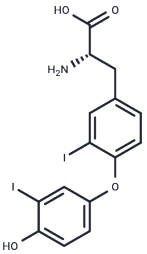
Data Sheet (Cat.No.T10103)

TargetMol

3,3'-Diiodo-L-thyronine

Chemical Properties



CAS No. : 4604-41-5

Formula: C15H13I2NO4

Molecular Weight: 525.08

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	3,3'-Diiodo-L-thyronine (3,3'-T2) is an endogenous thyroid hormone metabolite that significantly enhances COX activity.
Targets(IC50)	Others
In vitro	3,3'-Diiodo-L-thyronine (3,3'-T2; 1 μM; 30 min) significantly enhances COX activity [2], and is produced by further degradation of T3 and rT3 [3].

Solubility Information

Solubility	DMSO: 125 mg/mL (238.06 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9045 mL	9.5224 mL	19.0447 mL
5 mM	0.3809 mL	1.9045 mL	3.8089 mL
10 mM	0.1904 mL	0.9522 mL	1.9045 mL
50 mM	0.0381 mL	0.1904 mL	0.3809 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

Lorenzini L, et al. Assay of Endogenous 3,5-diiodo-L-thyronine (3,5-T2) and 3,3'-diiodo-L-thyronine (3,3'-T2) in Human Serum: A Feasibility Study. Front Endocrinol (Lausanne). 2019 Feb 19;10:88.

Lanni A, et al. Rapid stimulation in vitro of rat liver cytochrome oxidase activity by 3,5-diiodo-L-thyronine and by 3,3'-diiodo-L-thyronine. Mol Cell Endocrinol. 1994 Feb;99(1):89-94.

Chen X, et al. Simultaneous quantification of T4, T3, rT3, 3,5-T2 and 3,3'-T2 in larval zebrafish (Danio rerio) as a model to study exposure to polychlorinated biphenyls. Biomed Chromatogr. 2018 Jun;32(6):e4185.

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