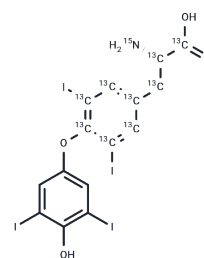


## L-Thyroxine-13C9,15N

## Chemical Properties

CAS No. :	1431868-11-9
Formula:	C <sub>15</sub> H <sub>11</sub> I <sub>4</sub> NO <sub>4</sub>
Molecular Weight:	786.8
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	L-Thyroxine-13C9,15N is intended for use as an internal standard for the quantification of L-thyroxine by GC- or LC-MS. L-Thyroxine (T0864) is a synthetic form of the thyroid hormone thyroxine.
In vivo	In vivo, L-thyroxine (0.9 and 2.7 µg) inhibits synthesis and release of thyrotropin induced by thyrotropin-releasing hormone from the anterior pituitary in mice. It also reverses decreases in levels of circulating thymic serum factor (FTS) and the number of T rosette-forming cells in an old age-induced mouse model of hypothyroidism. Formulations containing L-thyroxine have been used in the treatment of hypothyroidism.

## Solubility Information

Solubility	DMF: 0.14 mg/mL (0.18 mM), Sonication is recommended. DMSO:PBS (pH 7.2) (1:1): 0.5 mg/mL (0.64 mM), Sonication is recommended. DMSO: 2.5 mg/mL (3.18 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	1.271 mL	6.3549 mL	12.7097 mL
5 mM	0.2542 mL	1.271 mL	2.5419 mL
10 mM	0.1271 mL	0.6355 mL	1.271 mL
50 mM	0.0254 mL	0.1271 mL	0.2542 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.

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.

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