

Liothyronine sodium hydrate

Chemical Properties

CAS No. : 345957-19-9

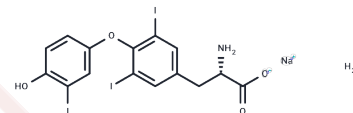
Formula: C₁₅H₁₁NNaO₄ xH₂O

Molecular Weight:

Store at low temperature

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	Liothyronine sodium hydrate (Triiodothyronine sodium hydrate) is a TR α and TR β agonist and a thyroxine analog with anticancer and antitumor activities. It can be used to study hypothyroidism, stroke and cognitive dysfunction.
Targets(IC50)	Endogenous Metabolite,Thyroid hormone receptor(THR)
In vitro	<p>METHODS: Liothyronine sodium hydrate (100 μM, 3 weeks) was used to treat liver cancer cells (Mahlavu, SK-Hep-1, J5, 5328 and HepG2) and the cell growth was observed.</p> <p>RESULTS: Liothyronine sodium hydrate can stimulate the proliferation of liver cancer cells. [1]</p>

Reference

- Lin KH,et al. Stimulation of proliferation by 3,3',5-triiodo-L-thyronine in poorly differentiated human hepatocarcinoma cells overexpressing beta 1 thyroid hormone receptor. Cancer Lett. 1994 Oct 14;85(2):189-94.
- Bhat MK,et al. Conformational changes of human beta 1 thyroid hormone receptor induced by binding of 3,3',5-triiodo-L-thyronine. Biochem Biophys Res Commun. 1993 Aug 31;195(1):385-92.
- Shiohara H, et al. Discovery of novel indane derivatives as liver-selective thyroid hormone receptor β (TR β) agonists for the treatment of dyslipidemia. Bioorg Med Chem. 2012 Jun 1;20(11):3622-34.

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