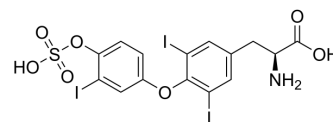


## Triiodothyronine sulfate

Cat. No.:	HY-126996
CAS No.:	31135-55-4
Molecular Formula:	C <sub>15</sub> H <sub>12</sub> I <sub>3</sub> NO <sub>7</sub> S
Molecular Weight:	731.04
Target:	Endogenous Metabolite; Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Triiodothyronine sulfate is the main metabolite of thyroid hormone triiodothyronine (T3). Triiodothyronine is an active form of thyroid hormone, which binds to $\beta$ 1 thyroid hormone receptor (TR $\beta$ 1), and activates its activity <sup>[1][2]</sup> .
In Vitro	Triiodothyronine (T3, 100 nM) stimulates the proliferation of hepatocarcinoma cells in which TR $\beta$ 1 is overexpressed <sup>[2]</sup> . Liothyronine binds to human $\beta$ 1 thyroid hormone receptor (hTR $\beta$ 1), and change its conformation. Triiodothyronine promotes growth, induces differentiation and regulates metabolic effects <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. J S LoPresti, et al. 3,5,3'-Triiodothyronine (T3) sulfate: a major metabolite in T3 metabolism in man. J Clin Endocrinol Metab. 1994 Mar;78(3):688-92.
- [2]. 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.
- [3]. 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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