Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Thyroxine sulfate

Catalog No: tcsc6313

Available Sizes

Size: 5mg

Size: 10mg

Specifications

CAS No:
77074-49-8

Formula:
$C_{15}H_{11}I_4NO_7S$

Pathway:
Others;Metabolic Enzyme/Protease;Metabolic Enzyme/Protease

Target:
Thyroid Hormone Receptor;Drug Metabolite;Endogenous Metabolite

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 31 mg/mL (36.18 mM)

Alternative Names:
T4 Sulfate

Observed Molecular Weight:
856.93

Product Description

Thyroxine sulfate is a thyroid hormone metabolite.

In Vitro:

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Thyroxine sulfate (T4S) is a normal component of human serum and amniotic fluid, and it is mostly derived from thyroxine peripherally and accumulates when type I 5-monodeiodinating activity is low in fetuses or inhibited by drugs, such as ipodate[1].

In Vivo: Significant amounts of thyroxine sulfate (T4S) in fetal sheep serum, meconium, bile, and amniotic and allantoic fluids are observed. T4S concentration in amniotic fluid from women at 18-19 weeks of gestation (25.5 ng/dL) is higher than that at 14-15 weeks of gestation (14.3 ng/dL). A significant rise in serum T4S is detected in hyperthyroid patients 1 day after ingestion of 1 g of ipodate[1]. Thyroxine undergoes significant sulfation in rats, and biliary excretion of T4S is enhanced if its type I deiodination is inhibited[2]. Serum T4S levels are clearly elevated compared with healthy references, and the decreased deiodination by liver D1 during critical illness appears to play a role in this increase in serum T4S levels[3].