

Product Name: T3

Catalog No.: 6666

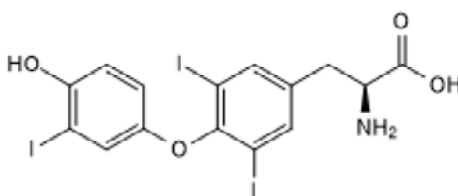
Batch No.: 1

CAS Number: 6893-02-3

IUPAC Name: O-(4-Hydroxy-3-iodophenyl)-3,5-diiodo-L-tyrosine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₂I₃NO₄
Batch Molecular Weight: 650.97
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +22.4 (Concentration = 1, Solvent = 1M HCl: EtOH (1:2))
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	27.68	1.86	2.15
Found	27.57	1.91	2.39

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: O-(4-Hydroxy-3-iodophenyl)-3,5-diiodo-L-tyrosine

Description:

Thyroid hormone. Promotes differentiation of oligodendroglial precursor cells in neonatal rats. Used in protocols to generate cortical spheroids from hPSCs. Sodium salt (Cat. No. 5552) also available.

Physical and Chemical Properties:

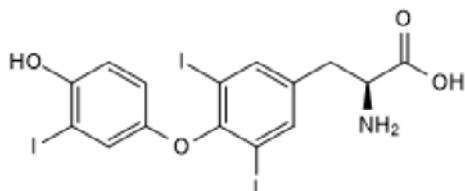
Batch Molecular Formula: C₁₅H₁₂I₃NO₄

Batch Molecular Weight: 650.97

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Madhavan et al (2018) Induction of myelinating oligodendrocytes in human cortical spheroids. *Nat Methods*. **15** 700. PMID: 30046099.

Marta et al (1998) Sustained neonatal hyperthyroidism in the rat affects myelination in the central nervous system. *J.Neurosci.Res.* **53** 251. PMID: 9671982.

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