

Certificate of Analysis

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Product Name: Liothyronine sodium

Catalog No.: 5552

Batch No.: 1

CAS Number: 55-06-1

EC Number: 200-223-5

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₁I₃NO₄Na

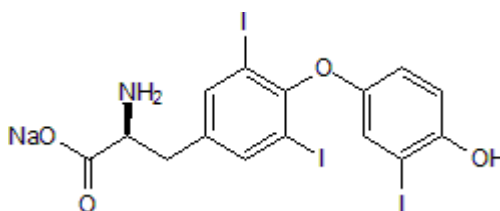
Batch Molecular Weight: 672.3

Physical Appearance: White solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +21.5 (Concentration = 4.75, Solvent = 1M HCl EtOH (1:4))

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

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Description:

Thyroid hormone (T3) analog. Promotes differentiation of mesenchymal stem cells (MSCs) into adipogenic cells in vitro.

Physical and Chemical Properties:

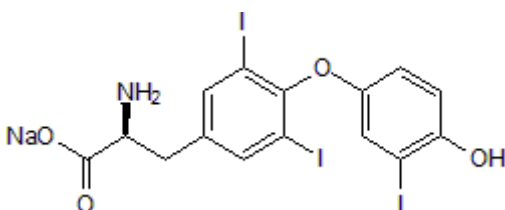
Batch Molecular Formula: C₁₅H₁₁I₃NO₄Na

Batch Molecular Weight: 672.3

Physical Appearance: White solid

Minimum Purity: >97%

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:

Rodgerson et al (2013) Novel regenerative solutions induce rapid adipogenic differentiation of mesenchymal stem cells with no evidence of transformation or osteogenic differentiation. *Adv.Stem Cells* **2013**.

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