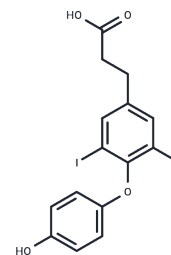


3,5-Diiodothyropropionic acid

Chemical Properties

CAS No. :	1158-10-7
Formula:	C15H12I2O4
Molecular Weight:	510.06
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	3,5-Diiodothyropropionic acid (C082182) is a thyroid hormone analog. It induces α -myosin heavy chain mRNA expression, binds to thyroid hormone receptor (K_a : 2.40/M and 4.06/M for TR α 1 and TR β 1).
Targets(IC50)	Thyroid hormone receptor(THR)

Solubility Information

Solubility	DMSO: 140 mg/mL (274.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (19.61 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (19.61 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9606 mL	9.8028 mL	19.6055 mL
5 mM	0.3921 mL	1.9606 mL	3.9211 mL
10 mM	0.1961 mL	0.9803 mL	1.9606 mL
50 mM	0.0392 mL	0.1961 mL	0.3921 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Pennock GD, et al. Cardiac effects of 3,5-diiodothyropropionic acid, a thyroid hormone analog with inotropic selectivity. J Pharmacol Exp Ther. 1992 Oct;263(1):163-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481