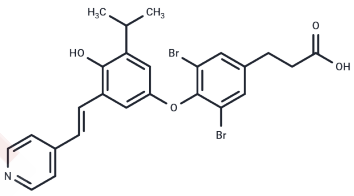
Data Sheet (Cat.No.T13435)

TargetMol

TR antagonist 1

Chemical Properties



CAS No. : 500794-88-7

Formula: C25H23Br2NO4

Molecular Weight: 561.26

Storage: Keep away from direct sunlight
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	TR antagonist 1 is a highly potent thyroid hormone receptor (TR) antagonist (IC50 of 36 and 22 nM for TRα and TRβ, respectively) that can be used to study diseases caused by endocrine abnormalities.
Targets(IC50)	Thyroid hormone receptor(THR)
In vitro	TR antagonist 1 is a high-affinity thyroid hormone receptor (TR) antagonist with IC50 s of 36 and 22 nM for TRα and TRβ, respectively[1].
In vivo	In the cholesterol-fed rat model, treatment with TR antagonist 1 reduces heart rate and shows a tendency to increase the proportion of low-density lipoprotein cholesterol (LDL-C) to a certain extent [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (89.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7817 mL	8.9085 mL	17.8171 mL
5 mM	0.3563 mL	1.7817 mL	3.5634 mL
10 mM	0.1782 mL	0.8909 mL	1.7817 mL
50 mM	0.0356 mL	0.1782 mL	0.3563 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

Koehler K, et al. Thyroid receptor ligands. 6. A high affinity "direct antagonist" selective for the thyroid hormone receptor. J Med Chem. 2006 Nov 16;49(23):6635-7.

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