

TR antagonist 2

Chemical Properties

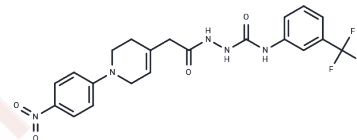
CAS No. : 1073179-55-1

Formula: C₂₁H₂₀F₃N₅O₄

Molecular Weight: 463.41

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	TR antagonist 2 (Compound 10a) is a competitive inhibitor of thyroid hormone receptors (TR α / β) with an IC ₅₀ of 47 nM. It works by competitively binding to the ligand-binding domain of the receptor with triiodothyronine (T ₃), thereby blocking the formation of the receptor-coactivator complex, inhibiting target gene transcription, and reducing thyroid hormone-mediated metabolic effects. TR antagonist 2 holds potential for research into hyperthyroidism (such as Graves' disease) and thyrotoxicosis.
Targets(IC ₅₀)	Thyroid hormone receptor(THR)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1579 mL	10.7896 mL	21.5792 mL
5 mM	0.4316 mL	2.1579 mL	4.3158 mL
10 mM	0.2158 mL	1.079 mL	2.1579 mL
50 mM	0.0432 mL	0.2158 mL	0.4316 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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