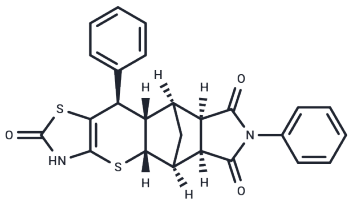
Data Sheet (Cat.No.T13217)

TargetMol
YOUR TARGET MOLECULES

TSHR antagonist S37a

Chemical Properties



CAS No. : 2143452-20-2

Formula: C25H20N2O3S2

Molecular Weight: 460.57

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	TSHR antagonist S37a is a selective antagonist of thyrotropin receptor (TSHR), with potential for the treatment of Graves' orbitopathy.
Targets(IC50)	Others
In vitro	In HEK293 cells, TSHR antagonist S37a is an inhibitor of TSHR(IC50s of 40 μM and approximately 20 μM for mTSHR and hTSHR, respectively). TSHR antagonist S37a also activation by monoclonal TSAb M22 (human), KSAb1 (murine), and the allosteric small-molecule agonist C2.
In vivo	In GO patients' sera, TSHR antagonist S37a inhibits cyclic adenosine monophosphate formation by oligoclonal TSAb, which are highly enriched.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1712 mL	10.8561 mL	21.7122 mL
5 mM	0.4342 mL	2.1712 mL	4.3424 mL
10 mM	0.2171 mL	1.0856 mL	2.1712 mL
50 mM	0.0434 mL	0.2171 mL	0.4342 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.

Reference

Marcinkowski P, et al. A New Highly Thyrotropin Receptor-Selective Small-Molecule Antagonist with Potential for the Treatment of Graves' Orbitopathy. Thyroid. 2019 Jan;29(1):111-123.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481