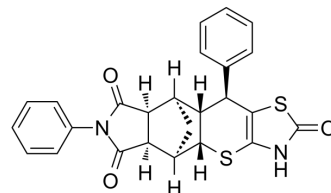


TSHR antagonist S37b

Cat. No.:	HY-129995		
CAS No.:	2143452-22-4		
Molecular Formula:	C ₂₅ H ₂₀ N ₂ O ₃ S ₂		
Molecular Weight:	460.57		
Target:	TSH Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (217.12 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.43 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.43 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.43 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	TSHR antagonist S37b is the less effective enantiomer of TSHR antagonist S37a (HY-129995A). TSHR antagonist S37b shows only a minor effect for thyrotropin receptor (TSHR) inhibition. TSHR antagonist S37b can be used for the research of thyroid function ^[1] .
IC ₅₀ & Target	TSHR ^[1]

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA