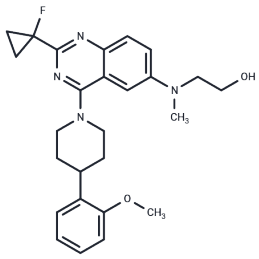
Data Sheet (Cat.No.T16860)

TargetMol

SBI-553

Chemical Properties



CAS No. : 1849603-72-0

Formula: C26H31FN4O2

Molecular Weight: 450.55

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	SBI-553 is an effective and brain penetrant NTR1 allosteric modulator (EC50: 0.34 μM).
Targets(IC50)	Neurotensin Receptor

Solubility Information

Solubility	DMSO: 27.8 mg/mL (61.7 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: 2 mg/mL (4.44 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2195 mL	11.0975 mL	22.1951 mL
5 mM	0.4439 mL	2.2195 mL	4.439 mL
10 mM	0.222 mL	1.1098 mL	2.2195 mL
50 mM	0.0444 mL	0.222 mL	0.4439 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

Pinkerton AB, et al. Discovery of β-Arrestin Biased, Orally Bioavailable, and CNS Penetrant Neurotensin Receptor 1 (NTR1) Allosteric Modulators. J Med Chem. 2019 Aug 20.
Duan J, Liu H, Zhao F, et al.GPCR activation and GRK2 assembly by a biased intracellular agonist.Nature.2023: 1-6.
Chen J, Zhou X, Fu L, et al.Natural Product-Based Screening for Lead Compounds Targeting SARS CoV-2 Mpro[J]. Pharmaceuticals, 2023, 16(5): 767..Pharmaceuticals.2023, 16(5): 767.
Duan J, Liu H, Ji Y, et al.Structure of a G protein-coupled receptor with GRK2 and a biased ligand.bioRxiv.2022