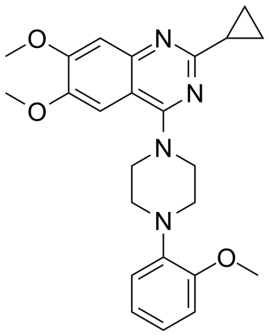
ML314

Cat. No.:	HY-16639
CAS No.:	1448895-09-7
Molecular Formula:	$C_{24}H_{28}N_4O_3$
Molecular Weight:	420.5
Target:	Neurotensin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (118.91 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3781 mL	11.8906 mL	23.7812 mL
	5 mM	0.4756 mL	2.3781 mL	4.7562 mL
	10 mM	0.2378 mL	1.1891 mL	2.3781 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 (5.95 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.95 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ML314 is a potent molecule agonist of NTR1 (EC_{50} = 1.9 μM); showed good selectivity against NTR2 and GPR35, but does not stimulate Ca^{2+} mobilization.

IC_{50} & Target

NTR1

REFERENCES

[1]. Hershberger P, et al. Small Molecule Agonists for the Neurotensin 1 Receptor (NTR1 Agonists). Probe Reports from the NIH Molecular Libraries Program

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