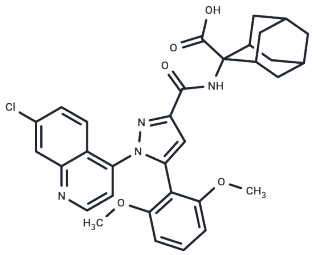
Data Sheet (Cat.No.T16034)

TargetMol

Meclinertant

Chemical Properties



CAS No. : 146362-70-1

Formula: C32H31ClN4O5

Molecular Weight: 587.07

Storage: Store at low temperature
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	Meclinertant (SR 48692) is a neurotensin receptor-1 (NT1) antagonist that blocks neurotensin-induced excitation and can be used to study neurological disorders.
Targets(IC50)	Neurotensin Receptor
In vitro	The neurotensin-induced excitation was selectively blocked by the non-peptide neurotensin receptor antagonist SR 48692, primarily observed in the ventral part of the nucleus[1].
In vivo	SR 48692 can antagonize the induced turning behavior in mice and rats, and reverse the inhibition of amphetamine-induced hyperactivity in rats by neurotensin[2].

Solubility Information

Solubility	DMSO: 20 mg/mL (34.07 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7034 mL	8.5169 mL	17.0337 mL
5 mM	0.3407 mL	1.7034 mL	3.4067 mL
10 mM	0.1703 mL	0.8517 mL	1.7034 mL
50 mM	0.0341 mL	0.1703 mL	0.3407 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

Jolas T,et al. Neurotensin and the serotonergic system. Prog Neurobiol. 1997 Aug;52(6):455-68.
Gully D, et al. Neuropharmacological profile of non-peptide neurotensin antagonists. Fundam Clin Pharmacol. 1995;9(6):513-21.
Felszeghy K, et al. Neurotensin receptor antagonist administered during cocaine withdrawal decreases locomotor sensitization and conditioned place preference. Neuropsychopharmacology. 2007 Dec;32(12):2601-10.

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