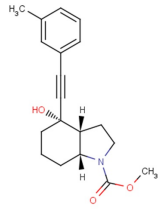
Data Sheet (Cat.No.T11951L)

TargetMol
A DRUG SCREENING EXPERT

Mavoglurant

Chemical Properties



CAS No.:	543906-09-8
Formula:	C19H23NO3
Molecular Weight:	313.39
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Mavoglurant is a structurally novel, non-competitive mGlu5 receptor antagonist. It has an IC50 of 30 nM in a functional assay with human mGluR5.
Targets(IC_{50})	Others: None
In vitro	Mavoglurant is a selective non-competitive antagonist which showed efficacy in the treatment of L-dopa induced dyskinesias in Parkinson's disease and Fragile X mental retardation in proof of principle studies. Mavoglurant is selective over the other mGluR subtypes, iGluRs and a panel of 238 CNS relevant receptors, transporter, or enzymes.
In vivo	Mavoglurant displays an improved pharmacokinetic profile in rats and efficacy in the stress-induced hyperthermia test in mice as compared to the prototypic mGluR5 antagonist MPEP.[1]

Solubility Information

Solubility	DMSO: 47 mg/mL (149.97 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.191 mL	15.955 mL	31.909 mL
5 mM	0.638 mL	3.191 mL	6.382 mL
10 mM	0.319 mL	1.595 mL	3.191 mL
50 mM	0.064 mL	0.319 mL	0.638 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Vranesic I, et al. AFQ056/mavoglurant, a novel clinically effective mGluR5 antagonist: identification, SAR and pharmacological characterization. Bioorg Med Chem. 2014 Nov 1;22(21):5790-5803.

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