

Mavoglurant racemate

Chemical Properties

CAS No.:	1636881-61-2
Formula:	C ₁₉ H ₂₃ NO ₃
Molecular Weight:	313.39
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Mavoglurant is a novel, non-competitive mGlu5 receptor antagonist. Mavoglurant (racemate) is the racemate of mavoglurant.
Targets(IC ₅₀)	Others: None
In vitro	For antagonistic activity, (-)-mavoglurant, the (-)-enantiomer shows IC ₅₀ of 0.11 µM and 0.03 µM (Ca ²⁺ and PI-turnover) whereas the (+)-enantiomer ((+)-10) shows only 37% and 18% inhibition at 10 µM.

Solubility Information

Solubility	DMSO: 50 mg/mL (159.55 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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 °C for 6 months; - 20 °C 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):5790-803

Inhibitors · Natural Compounds · Compound Libraries

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