

Product Data Sheet

Mavoglurant racemate

Cat. No.:HY-15257ACAS No.:1636881-61-2Molecular Formula: $C_{19}H_{23}NO_3$ Molecular Weight:313.39

Pathway: GPCR/G Protein; Neuronal Signaling

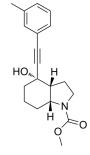
mGluR

Storage: Powder -20°C 3 years

4°C 2 years

In solvent -80°C 2 years

-20°C 1 year



relative stereochemistry

SOLVENT & SOLUBILITY

In Vitro

Target:

DMSO: 50 mg/mL (159.55 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.1909 mL	15.9546 mL	31.9091 mL
	5 mM	0.6382 mL	3.1909 mL	6.3818 mL
	10 mM	0.3191 mL	1.5955 mL	3.1909 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: ≥ 1.67 mg/mL (5.33 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: \geq 1.67 mg/mL (5.33 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (5.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Mavoglurant racemate (AFQ-056 racemate) is the racemate of Mavoglurant. Mavoglurant is a novel, non-competitive mGlu5 receptor antagonist ^[1] . Mavoglurant (racemate) is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.
IC ₅₀ & Target	mGluR5
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 μ M^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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):5790-80

Caution: Product has not been fully validated for medical applications. For research use only.

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