

Amisulpride-d₅

Cat. No.: HY-14545S CAS No.: 1216626-17-3 Molecular Formula: $C_{17}H_{22}D_5N_3O_4S$

Molecular Weight: 374.51

Target: **Dopamine Receptor**

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Powder -20°C 3 years

2 years

-80°C In solvent 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 200 mg/mL (534.03 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.6702 mL	13.3508 mL	26.7016 mL
	5 mM	0.5340 mL	2.6702 mL	5.3403 mL
	10 mM	0.2670 mL	1.3351 mL	2.6702 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description Amisulpride-d₅ is the deuterium labeled Amisulpride. Amisulpride is a dopamine D2/D3 receptor antagonist with Kis of 2.8 and 3.2 nM for human dopamine D2 and D3, respectively[1][2].

IC₅₀ & Target D₃ Receptor

In Vitro Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.



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

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