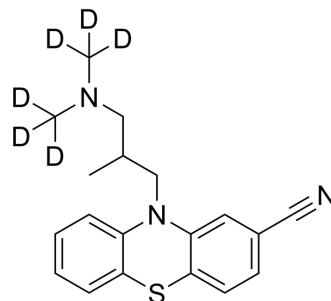


Cyamemazine-d₆

Cat. No.:	HY-14264S
CAS No.:	1216608-24-0
Molecular Formula:	C ₁₉ H ₁₅ D ₆ N ₃ S
Molecular Weight:	329.49
Target:	5-HT Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cyamemazine-d ₆ is the deuterium labeled Cyamemazine. Cyamemazine is a neuroleptic agent that contains the phenothiazine chromophore. Cyamemazine is often used as an anxiolytic. Cyamemazine is a potent 5-HT ₃ (K _i of 12 nM), 5-HT _{2A} (K _i = 1.5 nM) and 5-HT _{2C} (K _i of 75 nM) receptors antagonist with antipsychotic activity[1][2].
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.
- [2]. Bourin M, et al. Preclinical and clinical pharmacology of cyamemazine: anxiolytic effects and prevention of alcohol and benzodiazepine withdrawal syndrome. *CNS Drug Rev.* 2004 Fall;10(3):219-29.
- [3]. Vendrell-Criado V, et al. Photobehavior of the antipsychotic drug cyamemazine in a supramolecular gel protective environment. *J Photochem Photobiol B.* 2020 Jan;202:111686.

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

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