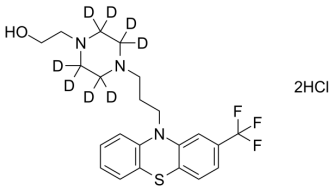
Fluphenazine-d_8 dihydrochloride

Cat. No.:	HY-A0081S
Molecular Formula:	$C_{22}H_{20}D_8Cl_2F_3N_3OS$
Molecular Weight:	518.49
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Fluphenazine-d_8 (dihydrochloride) is the deuterium labeled Fluphenazine dihydrochloride. Fluphenazine dihydrochloride is a phenothiazine-class D1DR and D2DR inhibitor; used to deliver Fluphenazine to biological systems in studies probing the effects and metabolic fates of this commonly used dopamine antagonist.
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]. Trzeciak HI, et al. Behavioral effects of withdrawal of fluphenazine after long-term treatment. Arzneimittelforschung. 1976;26(9):1697-700.

[3]. Whelpton R, Curry SH. Effect of 20, 6Methods for study of fluphenazine kinetics in man. J Pharm Pharmacol. 1976 Dec;28(12):869-73.

[4]. Javaid JI, et al. Fluphenazine determination in human plasma by a sensitive gas chromatographic method using nitrogen detector. J Chromatogr Sci. 1981 Sep;19(9):439-43.

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