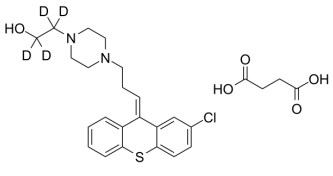
Zuclopenthixol-d_4 succinate

Cat. No.:	HY-A0163S
CAS No.:	1246833-97-5
Molecular Formula:	$C_{26}H_{27}D_4ClN_2O_5S$
Molecular Weight:	523.08
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Zuclopenthixol-d_4 (succinate) is the deuterium labeled Zuclopenthixol. Zuclopenthixol is a thioxanthene derivative which acts as a mixed dopamine D1/D2 receptor antagonist[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]. Manzaneque JM, et al. An ethopharmacological assessment of the effects of zuclopenthixol on agonistic interactions in male mice. Methods Find Exp Clin Pharmacol. 1999 Jan-Feb;21(1):11-5.

[3]. Khalifa AE, et al. Pro-oxidant activity of zuclopenthixol in vivo: differential effect of the drug on brain oxidative status of scopolamine-treated rats. Hum Exp Toxicol. 2004 Aug;23(9):439-45.

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