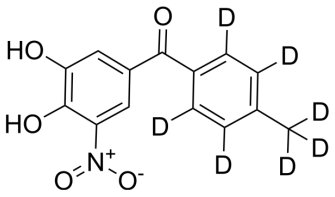
Tolcapone-d_7

Cat. No.:	HY-17406S
Molecular Formula:	$C_{14}H_4D_7NO_5$
Molecular Weight:	280.28
Target:	COMT; Amyloid-β; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tolcapone-d_7 is a deuterium labeled Tolcapone. Tolcapone is a selective, potent and orally active COMT inhibitor. Tolcapone is also a potent inhibitor of α-syn and Aβ42 oligomerization and fibrillogenesis and protect against extracellular toxicity induced by the aggregation of both proteins in PC12 cells[1][2].
IC_{50} & Target	COMT[1] α-syn and Aβ42 oligomerization, fibrillogenesis[2]

REFERENCES

[1]. Paterson NE, et al. Sub-optimal performance in the 5-choice serial reaction time task in rats was sensitive to methylphenidate, atomoxetine and d-amphetamine, but unaffected by the COMT inhibitor tolcapone. Neurosci Res. 2011 Jan;69(1):41-50.

[2]. Di Giovanni S, et al. Entacapone and tolcapone, two catechol O-methyltransferase inhibitors, block fibril formation of alpha-synuclein and beta-amyloid and protect against amyloid-induced toxicity. J Biol Chem. 2010 May 14;285(20):14941-54.

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