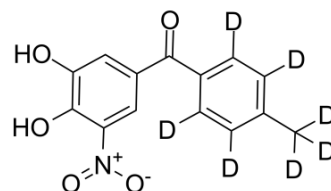


Tolcapone D7

Cat. No.:	HY-17406S
Molecular Formula:	C ₁₄ H ₄ D ₇ NO ₅
Molecular Weight:	280.28
Target:	COMT; Amyloid-β
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tolcapone D7 (Ro 40-7592 D7) 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]} .
IC₅₀ & 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.

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

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