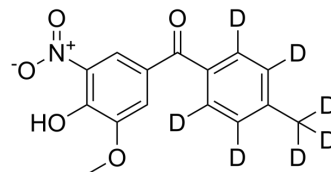


3-O-Methyltolcapone-d₇

Cat. No.:	HY-100642S		
Molecular Formula:	C ₁₅ H ₆ D ₇ NO ₅		
Molecular Weight:	294.31		
Target:	COMT		
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	3-O-Methyltolcapone-d ₇ is a deuterium labeled 3-O-Methyltolcapone. 3-O-Methyltolcapone is a metabolite of Tolcapone. Tolcapone is an orally active, reversible, selective and potent COMT inhibitor. Tolcapone crosses the blood-brain barrier, and can be used for treatment of Parkinson's disease[1][2].
IC₅₀ & Target	COMT ^{[1][2]}

REFERENCES

- [1]. Jorga K, et al. Metabolism and excretion of tolcapone, a novel inhibitor of catechol-O-methyltransferase. *Br J Clin Pharmacol*. 1999 Oct;48(4):513-20.
- [2]. Ceravolo R, et al. 18F-dopa PET evidence that tolcapone acts as a central COMT inhibitor in Parkinson's disease. *Synapse*. 2002 Mar 1;43(3):201-7.

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

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