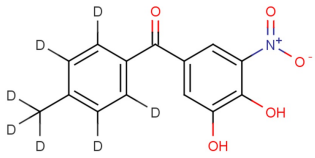
Data Sheet (Cat.No.T13181)

TargetMol
A DRUG SCREENING EXPERT

Tolcapone D7

Chemical Properties



CAS No.:	T13181
Formula:	C14H4D7NO5
Molecular Weight:	280.28
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Tolcapone D7 is a deuterium-labeled Tolcapone. Tolcapone is a selective and orally active inhibitor of COMT.
Targets(IC_{50})	COMT: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.568 mL	17.839 mL	35.679 mL
5 mM	0.714 mL	3.568 mL	7.136 mL
10 mM	0.357 mL	1.784 mL	3.568 mL
50 mM	0.071 mL	0.357 mL	0.714 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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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