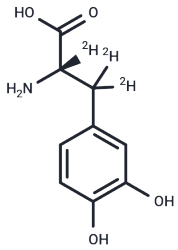
Data Sheet (Cat.No.T34589)

TargetMol

SD-1077

Chemical Properties



CAS No. : 713140-70-6

Formula: C9H11NO4

Molecular Weight: 200.21

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	SD-1077 is a deuterium containing levodopa. SD-1077 has been shown in preclinical models to improve the half-life of dopamine in the brain resulting in a prolonged treatment effect.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9948 mL	24.9738 mL	49.9476 mL
5 mM	0.999 mL	4.9948 mL	9.9895 mL
10 mM	0.4995 mL	2.4974 mL	4.9948 mL
50 mM	0.0999 mL	0.4995 mL	0.999 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Schneider F, Erisson L, Beygi H, Bradbury M, Cohen-Barak O, Grachev ID, Guzy S, Loupe PS, Levi M, McDonald M, Savola JM, Papapetropoulos S, Tracewell WG, Velinova M, Spiegelstein O. Pharmacokinetics, metabolism and safety of deuterated L-DOPA (SD-1077)/carbidopa compared to L-DOPA/carbidopa following single oral dose administration in healthy subjects. Br J Clin Pharmacol. 2018 Oct;84(10):2422-2432. doi: 10.1111/bcp.13702. Epub 2018 Aug 9. PubMed PMID: 29959802; PubMed Central PMCID: PMC6138493.

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