Data Sheet (Cat.No.T32701)

TargetMol

Levodopa sodium

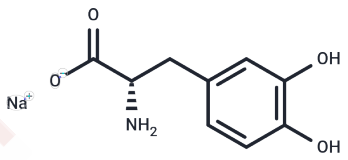
Chemical Properties

CAS No. : 63302-01-2

Formula: C9H10NNaO4

Molecular Weight: 219.17

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	Levodopa sodium (L-DOPA) is the metabolic precursor of the neurotransmitter dopamine. It is orally active, capable of crossing the blood-brain barrier, and is rapidly taken up by dopaminergic neurons in the brain where it is converted into dopamine. It exhibits anti-hyperalgesic effects and is commonly used to induce animal models of Parkinson's disease.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5627 mL	22.8133 mL	45.6267 mL
5 mM	0.9125 mL	4.5627 mL	9.1253 mL
10 mM	0.4563 mL	2.2813 mL	4.5627 mL
50 mM	0.0913 mL	0.4563 mL	0.9125 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

Pelicioni PHS, Brodie MA, Latt MD, Menant JC, Menz HB, Fung VSC, Lord SR. Head and trunk stability during gait before and after levodopa intake in Parkinson's disease subtypes. Exp Gerontol. 2018 Jul 3;111:78-85. doi: 10.1016/j.exger.2018.06.031. [Epub ahead of print] PubMed PMID: 30017993.

Fahimi Z, Jahromy MH. Effects of blackberry (Morus nigra) fruit juice on levodopa-induced dyskinesia in a mice model of Parkinson's disease. J Exp Pharmacol. 2018 Jul 4;10:29-35. doi: 10.2147/JEP.S161782. eCollection 2018. PubMed PMID: 30013404; PubMed Central PMCID: PMC6037159.

Wu N, Wan Y, Song L, Qi C, Liu Z, Gan J. The abnormal activation of D1R/Shp-2 complex involved in levodopa-induced dyskinesia in 6-hydroxydopamine-lesioned Parkinson's rats. Neuropsychiatr Dis Treat. 2018 Jul 5;14:1779-1786. doi: 10.2147/NDT.S162562. eCollection 2018. PubMed PMID: 30013350; PubMed Central PMCID: PMC6038854.

Mohamed D, Hegazy MA, Elshahed MS, Toubar SS, Helmy MI. Novel contribution to the simultaneous monitoring of pramipexole dihydrochloride monohydrate and levodopa as co-administered drugs in human plasma utilizing UPLC-MS/MS. Eur J Mass Spectrom (Chichester). 2018 Jan 1:1469066718788800. doi: 10.1177/1469066718788800. [Epub ahead of print] PubMed PMID: 30012017.