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DATASHEET

L-DOPA methyl ester hydrochloride

Product overview

Name	L-DOPA methyl ester hydrochloride
Cat No	HB5354
Alternative names	DME, LDME, Levodopa methyl ester, ST 41769, 3,4-Dihydroxyphenylalanine methyl ester
Biological action	Agonist
Purity	>98%
Description	Water soluble L-DOPA derivative

Images

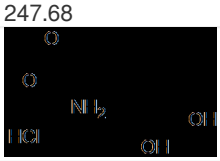
Biological Data

Biological description	Highly water-soluble derivative of L-DOPA, with better oral bioavailability, solubility and pharmacokinetic profile than L-DOPA. Exhibits anti-parkinsonian action.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in water (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	Methyl (2S)-2-amino-3-(3,4-dihydroxyphenyl)propanoate hydrochloride
Molecular Weight	247.68
Chemical structure	
Molecular Formula	$C_{10}H_{13}NO_4.HCl$
CAS Number	1421-65-4
PubChem identifier	10131132

SMILES	COC(=O)[C@H](CC1=CC(=C(C=C1)O)O)N.Cl
InChi	InChI=1S/C10H13NO4.ClH/c1-15-10(14)7(11)4-6-2-3-8(12)9(13)5-6;/h2-3,5,7,12-13H,4,11H2,1H3;1H/t7-;/m0./s1
InChiKey	WFGNJLMSYIJWII-FJXQXJEOSA-N
MDL number	MFCD00038958
Appearance	Off-white solid

References

Striatal inhibition of PKA prevents levodopa-induced behavioural and molecular changes in the hemiparkinsonian rat

Lebel et al (2010) Neurobiol Dis.

PubMedID 20060905

Development of a Hydrophobicity-Controlled Delivery System Containing Levodopa Methyl Ester Hydrochloride Loaded into a Mesoporous Silica

Kiss et al (2021) Pharmaceutics 13(7)

PubMedID 34371730

The effects on central dopamine function of chronic L-dopa (methyl ester hydrochloride) treatment of mice

Tabar et al (1989) Pharmacol Biochem Behav. 139-46.

PubMedID 2789405