

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



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.
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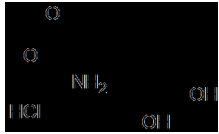
Solubility & Handling

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
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Chemical Data

Chemical name	Methyl (2S)-2-amino-3-(3,4-dihydroxyphenyl)propanoate hydrochloride
Molecular Weight	247.68

Chemical name	Methyl (2S)-2-amino-3-(3,4-dihydroxyphenyl)propanoate hydrochloride
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](#)