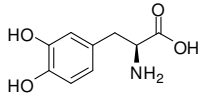




Certificate of Analysis

Axon Catalogue ID:	3666	Batch Number:	1																								
Product Name:	L-DOPA																										
Alternative Name(s):	Levodopa; L-3,4-dihydroxyphenylalanine																										
IUPAC Name:	(S)-2-Amino-3-(3,4-dihydroxyphenyl)propanoic acid																										
Structure:		Amount:																									
CAS number(s):	59-92-7																										
Molecular Formula:	C9H11NO4	Molecular Weight:	197.19																								
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Appearance:	White solid	Observed mp:	>250 °C (decomp)																								
TLC (R_f):	0.54	DCM/MeOH/HCOOH (1:1:0.1)																									
Chemical Purity:	>98%																										
Optical Purity (ee):	Optically pure																										
Optical Rotation (Det.):	[α] _D = -11.0° with c = 1 in 1N HCl (aq)																										
¹H-NMR:	Analytical data confirm chemical structure																										
Mass Spec:	Analytical data confirm chemical structure																										
Microanalysis:	Calculated: C 54.82, H 5.62, N 7.10; Found: C 55.14, H 5.60, N 7.06																										
Storage Conditions:	Desiccate at -20 °C																										
Solubility Data:	<table><thead><tr><th>Solvent</th><th>Solubility (mg/ml)</th><th>Solubility (mM)</th><th>Remarks</th></tr></thead><tbody><tr><td>Water</td><td>0.0</td><td>0.1</td><td>Insoluble</td></tr><tr><td>0.1N NaOH (aq)</td><td>14.0</td><td>71.0</td><td></td></tr><tr><td>0.1N HCl (aq)</td><td>10.5</td><td>53.2</td><td></td></tr><tr><td>DMSO</td><td>0.0</td><td>0.1</td><td>Insoluble</td></tr><tr><td>EtOH</td><td>0.0</td><td>0.1</td><td>Insoluble</td></tr></tbody></table>	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks	Water	0.0	0.1	Insoluble	0.1N NaOH (aq)	14.0	71.0		0.1N HCl (aq)	10.5	53.2		DMSO	0.0	0.1	Insoluble	EtOH	0.0	0.1	Insoluble		
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Remarks:	Purity based on NMR.																										
QC Date:	26-7-2022																										

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only