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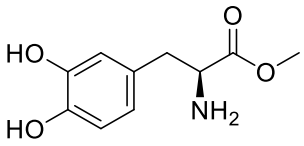
PRODUCT DATA SHEET

3-Hydroxy-L-tyrosine methyl ester

Code No.: **BIA-H2603**

Pack sizes: **5 mg, 25 mg**



Synonyms : 3,4-Dihydroxyphenyl-L-alanine methyl ester hydrochloride, 3-Hydroxy-L-tyrosine methyl ester hydrochloride, L-DOPA Me ester hydrochloride, L-Dopa methyl ester hydrochloride, Levodopa methyl ester hydrochloride, Methyl L-3-(3,4-dihydroxyphenyl)alaninate hydrochloride, ST 41769

Specifications

CAS #	:	**1421-65-4**
Molecular Formula	:	**$C_{10}H_{13}NO_4$**
Molecular Weight	:	**211.2**
Source	:	**Synthetic**
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol or DMSO**

Application Notes

3-Hydroxy-L-tyrosine methyl ester (melevodopa, L-dopa methyl ester) is a prodrug of levodopa used for the treatment of Parkinson's disease. L-DOPA methyl ester is a potent competitive antagonist for the action of L-DOPA. Short-term exposure to L-DOPA methyl ester inhibits the induction of endogenous xenotropic type-C virus from Kirsten sarcoma-virus-transformed BALB/c (K-BALB) mouse cells. L-DOPA methyl ester has weak activity against against L1210 and P388 murine leukaemias and B-16 melanoma cell lines.

References

1. Available and emerging treatments for Parkinson's disease: a review. Drug Design Dev. 2011, 5, 241.
2. L-dopa methyl ester antagonizes competitively L-dopa-induced facilitation of noradrenaline release from rat hypothalamic slices. Goshima Y. et al. Japan J Pharmacol. 1990, 52, 174.
3. Inhibition of endogenous murine retrovirus expression by L-β-3,4-dihydroxyphenylalanine (L-dopa) methyl ester. Suk W.A. et al. Int J Cancer 1981, 27, 37.
4. l-Dopa methyl ester as a new antitumour agent. Wick M.M. Nature 1977, 269, 512.

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