

Product Data Sheet

Product Name: 3-Methoxytyrosine

Cat. No.: GC49869

Chemical Properties

Cas. No. 7636-26-2

SMILES O=C(C(Cc1ccc(OC)c(O)c1)O)N)O

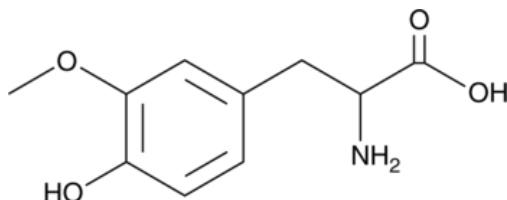
Formula C₁₀H₁₃NO₄ M.Wt 211.2

Solubility Acetonitrile: Slightly soluble, Chloroform: Slightly soluble, DMF: Slightly soluble, DMSO: Slightly soluble, PBS (pH 7.2): Slightly soluble, Water: Slightly soluble
Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

3-Methoxytyrosine is an active metabolite of L-DOPA.¹ It is formed from L-DOPA via O-methylation by catechol-O-methyltransferase (COMT). 3-Methoxytyrosine (10 and 100 μM) inhibits L-DOPA-induced neuroprotection in primary rat mesencephalic dopaminergic neurons.²

1. Miller, J.W., Shukitt-Hale, B., Villalobos-Molina, R., et al. Effect of L-Dopa and the catechol-O-methyltransferase inhibitor Ro 41-0960 on sulfur amino acid metabolites in rats. Clin. Neuropharmacol. 20(1):55-66 (1997).

2. Asanuma, M., and Miyazaki, I. 3-O-Methyldopa inhibits astrocyte-mediated dopaminergic neuroprotective effects of L-DOPA. BMC Neurosci. 17(1):52 (2016).

Caution: Product has not been fully validated for medical applications. For research use only.

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