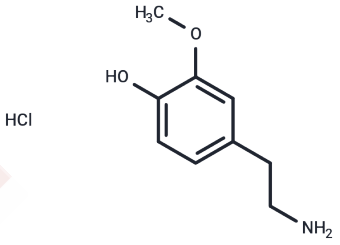
Data Sheet (Cat.No.T4710)

TargetMol

3-Methoxytyramine hydrochloride

Chemical Properties



CAS No. : 1477-68-5

Formula: C9H14ClNO2

Molecular Weight: 203.67

Storage: Keep away from direct sunlight,Keep away from moisture,Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	3-Methoxytyramine hydrochloride (3-O-methyl Dopamine hydrochloride) is an inactive metabolite of dopamine which can activate trace amine associated receptor 1 (TAAR1). 3-methoxytyramine can be found primarily in human brain and most tissues tissues; and in blood, cerebrospinal fluid (csf) or urine. Within a cell, 3-methoxytyramine is primarily located in the cytoplasm.
Targets(IC50)	Endogenous Metabolite,Drug Metabolite

Solubility Information

Solubility	DMSO: 250 mg/mL (1227.48 mM),Sonication is recommended. H2O: 50 mg/mL (245.5 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.82 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9099 mL	24.5495 mL	49.099 mL
5 mM	0.982 mL	4.9099 mL	9.8198 mL
10 mM	0.491 mL	2.455 mL	4.9099 mL
50 mM	0.0982 mL	0.491 mL	0.982 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sotnikova TD, et al. The dopamine metabolite 3-methoxytyramine is a neuromodulator. PLoS One. 2010 Oct 18;5 (10):e13452.
Guldberg HC, et al. Some observations on the estimation of 3-methoxytyramine in brain tissue. Br J Pharmacol. 1971 Aug;42(4):505-11.