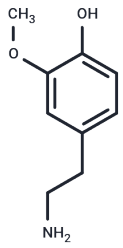
Data Sheet (Cat.No.T8269)

TargetMol

3-Methoxytyramine

Chemical Properties



CAS No. : 554-52-9

Formula: C9H13NO2

Molecular Weight: 167.21

Storage: Keep away from moisture,Store at low temperature,
Store under nitrogen
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 (3-O-methyl Dopamine) is a cellular metabolite of dopamine (3-hydroxytyramine), a neuromodulator that induces behavioral effects, induces significant ERK and CREB phosphorylation, and is capable of inducing a complex set of aberrant involuntary movements in acutely depleted dopamine-containing mice.
Targets(IC50)	Endogenous Metabolite
In vivo	3-Methoxytyramine, an extracellular metabolite of dopamine (DA), was able to elicit significant behavioral responses in dopamine-deficient DAT-KO (DDD) mice. In addition, 3-Methoxytyramine promotes behavioral responses in dopamine-deficient mice by activating intracellular signaling pathways in the striatum. [1]

Solubility Information

Solubility	DMSO: 8.15 mg/mL (48.74 mM),Sonication is recommended. H2O: 4 mg/mL (23.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.81 mg/mL (4.84 mM),Solution. *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	5.9805 mL	29.9025 mL	59.805 mL
5 mM	1.1961 mL	5.9805 mL	11.961 mL
10 mM	0.5981 mL	2.9903 mL	5.9805 mL
50 mM	0.1196 mL	0.5981 mL	1.1961 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.