

## 3-Methoxytyramine

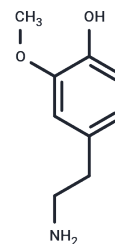
## Chemical Properties

CAS No. : 554-52-9

Formula: C<sub>9</sub>H<sub>13</sub>NO<sub>2</sub>

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. H <sub>2</sub> O: 4 mg/mL (23.92 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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

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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.

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