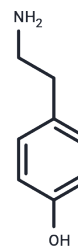


Tyramine

Chemical Properties

CAS No. :	51-67-2
Formula:	C ₈ H ₁₁ NO
Molecular Weight:	137.18
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Tyramine (Uteramine) is an indirect sympathomimetic that occurs naturally in cheese and other foods. Tyramine does not directly activate adrenergic receptors, but it can serve as a substrate for adrenergic uptake systems and MONOAMINE OXIDASE to prolong the actions of adrenergic transmitters. It also provokes transmitter release from adrenergic terminals and may be a neurotransmitter in some invertebrate nervous systems.
Targets(IC50)	MAO,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 62.5 mg/mL (455.61 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 6.25 mg/mL (45.56 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 6.25 mg/mL (45.56 mM),Solution. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.2897 mL	36.4485 mL	72.8969 mL
5 mM	1.4579 mL	7.2897 mL	14.5794 mL
10 mM	0.729 mL	3.6448 mL	7.2897 mL
50 mM	0.1458 mL	0.729 mL	1.4579 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

Grundemann D, et al. Nat Neurosci. 1998 Sep;1(5):349-51.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481