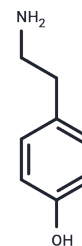


## Tyramine hydrochloride

## Chemical Properties

CAS No. :	60-19-5
Formula:	C <sub>8</sub> H <sub>12</sub> ClNO
Molecular Weight:	173.64
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

HCl



## Biological Description

Description	Tyramine hydrochloride is a biogenic trace amine that is generated via the decarboxylation of the amino acid tyrosine, exhibiting neuromodulatory properties as well as cardiovascular and immunological effects.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 30 mg/mL (172.77 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 (11.52 mM),Sonication is recommended. <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	5.759 mL	28.7952 mL	57.5904 mL
5 mM	1.1518 mL	5.759 mL	11.5181 mL
10 mM	0.5759 mL	2.8795 mL	5.759 mL
50 mM	0.1152 mL	0.5759 mL	1.1518 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

Gaby, Andersen, Patrick, et al. Food sources and biomolecular targets of tyramine.[J]. Nutrition Reviews, 2018.  
Lange A B . Tyramine: From octopamine precursor to neuroactive chemical in insects[J]. General and Comparative Endocrinology, 2009, 162(1):18-26.

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