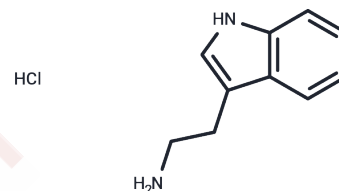


Tryptamine hydrochloride

Chemical Properties

CAS No. :	343-94-2
Formula:	C ₁₀ H ₁₃ ClN ₂
Molecular Weight:	196.68
Storage:	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	Tryptamine hydrochloride is a monoamine alkaloid, metabolite of tryptophan and CNS active substance, agonist of 5-HT ₄ receptor, TAAR1 and AHR, with potential for blood-brain barrier permeability.
Targets(IC ₅₀)	AhR,5-HT Receptor,Endogenous Metabolite
In vitro	In perfused cat skin flaps and gastrocnemius muscles, arterial injection of tryptamine hydrochloride (2mg/0.5mL) induced significant histamine release (up to 283µg per injection), along with vasoconstriction and edema formation. This activity confirms that Tryptamine hydrochloride acts as a histamine-releasing agent in vitro[1].
In vivo	Subcutaneous injection of 2mg Tryptamine hydrochloride (in 0.5mL) in rats led to a marked reduction in histamine content at the injection site. Repeated intraperitoneal injections totaling 13mg over 3 days significantly decreased histamine levels in the skin (by 30-46%) and diaphragm (by 26%), indicating systemic histamine release[1].

Solubility Information

Solubility	H ₂ O: 50 mg/mL (254.22 mM) DMSO: 80 mg/mL (406.75 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: 3.3 mg/mL (16.78 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	5.0844 mL	25.422 mL	50.844 mL
5 mM	1.0169 mL	5.0844 mL	10.1688 mL
10 mM	0.5084 mL	2.5422 mL	5.0844 mL
50 mM	0.1017 mL	0.5084 mL	1.0169 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

FELDBERG W, SMITH AN. Release of histamine by tryptamine and 5-hydroxytryptamine. Br J Pharmacol Chemother. 1953 Dec;8(4):406-11.

GADDUM JH. Tryptamine receptors. J Physiol. 1953 Feb 27;119(2-3):363-8.

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