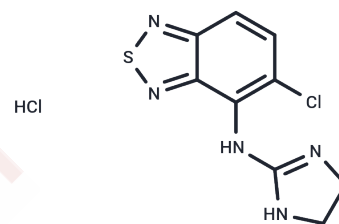


## Tizanidine hydrochloride

## Chemical Properties

CAS No. :	64461-82-1
Formula:	C <sub>9</sub> H <sub>9</sub> Cl <sub>2</sub> N <sub>5</sub> S
Molecular Weight:	290.17
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	Tizanidine hydrochloride (Tizanidine HCl), an $\alpha$ 2-adrenergic receptor agonist, inhibits neurotransmitter release from CNS noradrenergic neurons.
Targets(IC50)	Apoptosis,Akt,Adrenergic Receptor,Wnt/beta-catenin

## Solubility Information

Solubility	DMSO: 45 mg/mL (155.08 mM),Sonication is recommended. H2O: 29 mg/mL (99.94 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: 5 mg/mL (17.23 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	3.4463 mL	17.2313 mL	34.4626 mL
5 mM	0.6893 mL	3.4463 mL	6.8925 mL
10 mM	0.3446 mL	1.7231 mL	3.4463 mL
50 mM	0.0689 mL	0.3446 mL	0.6893 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

Piletz JE, et al. J Pharmacol Exp Ther. 1996 Nov;279(2):694-702.

Xu C, Zhou Y, Liu Y, et al. Specific pharmacological and Gi/o protein responses of some native GPCRs in neurons. Nature Communications. 2024, 15(1): 1990.

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