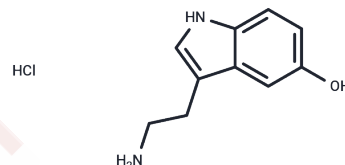


## Serotonin hydrochloride

## Chemical Properties

CAS No. :	153-98-0
Formula:	C <sub>10</sub> H <sub>13</sub> ClN <sub>2</sub> O
Molecular Weight:	212.676
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Serotonin hydrochloride (Serotonin HCl) is an endogenous 5-HT receptor agonist, a monoamine neurotransmitter in the CNS, and a catechol O-methyltransferase (COMT) inhibitor(Ki=44 μM).
Targets(IC50)	5-HT Receptor,Endogenous Metabolite,Transferase
In vivo	The role of serotonin in the regulation of larval Aedes aegypti hemolymph composition is investigated in vivo using two reuptake inhibitors (SSRIs), alaproclate HCl and 6-nitroquipazine maleate, and the receptor antagonist methiothepin mesylate. [1]

## Solubility Information

Solubility	H2O: 21.3 mg/mL (100.15 mM),Sonication is recommended. DMSO: 50 mg/mL (235.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7019 mL	23.5095 mL	47.019 mL
5 mM	0.9404 mL	4.7019 mL	9.4038 mL
10 mM	0.4702 mL	2.3509 mL	4.7019 mL
50 mM	0.094 mL	0.4702 mL	0.9404 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.

### Reference

Onken, H, et al. J Insect Sci, 2008, 8, 1-20.

Liu P, Yin Y, Wang T, et al. Ligand-induced activation of ERK1/2 signaling by constitutively active Gs-coupled 5-HT receptors. Acta Pharmacologica Sinica. 2019, 40(9): 1157-1167

Han M, Kang F, Yang C, et al. A comparative study of serotonin and norepinephrine as adjuncts to improve cutaneous antinociception of mexiletine in response to skin pinpricks in rats. International Journal of Immunopathology and Pharmacology. 2021, 35: 20587384211016129.

Han M, Kang F, Yang C, et al. A comparative study of serotonin and norepinephrine as adjuncts to improve cutaneous antinociception of mexiletine in response to skin pinpricks in rats[]]. International Journal of Immunopathology and Pharmacology. 2021, 35: 20587384211016129.

Ping Liu, Yu-ling Yin, Ting Wang, Li Hou, Xiao-xi Wang, Man Wang, Guan-guan Zhao, Yi Shi, H. Eric Xu, and Yi Jiang. Ligand-induced activation of ERK1/2 signaling by constitutively active Gs-coupled 5-HT receptors []]. Acta Pharmacologica Sinica. 2019 Mar 4.

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