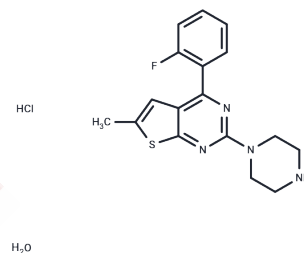


## MCI-225 hydrochloride hydrate

## Chemical Properties

CAS No. :	476148-82-0
Formula:	C <sub>17</sub> H <sub>20</sub> ClFN <sub>4</sub> O <sub>5</sub>
Molecular Weight:	382.88
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	MCI-225 is a norepinephrine reuptake/5-HT <sub>3</sub> /5-HT reuptake inhibitor. MCI-225 could be effective in the treatment of senile dementia of the Alzheimer type, which is accompanied with both deficit in the BF-cortex cholinergic neuron and cerebral glucose hypometabolism. MCI-225 enhances attentional eye tracking in midpontine pretrigeminal preparation.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6118 mL	13.0589 mL	26.1178 mL
5 mM	0.5224 mL	2.6118 mL	5.2236 mL
10 mM	0.2612 mL	1.3059 mL	2.6118 mL
50 mM	0.0522 mL	0.2612 mL	0.5224 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

- Eguchi J, Inomata Y, Saito K. The anxiolytic-like effect of MCI-225, a selective NA reuptake inhibitor with 5-HT<sub>3</sub> receptor antagonism. *Pharmacol Biochem Behav.* 2001 Apr;68(4):677-83. PubMed PMID: 11526964.
- Ishigooka J. [Serotonin-noradrenaline reuptake inhibitors(SNRIs)]. *Nihon Rinsho.* 2001 Aug;59(8):1523-9. Review. Japanese. PubMed PMID: 11519152.
- Wu YL, Yoshida M, Emoto H, Ishii H, Koga K, Tanaka M. Effects of acute and chronic administration of MCI-225, a new selective noradrenaline reuptake inhibitor with 5-HT<sub>3</sub> receptor blocking action, on extracellular noradrenaline levels in the hypothalamus of stressed rats. *Jpn J Pharmacol.* 2000 May;83(1):31-8. PubMed PMID: 10887938.
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