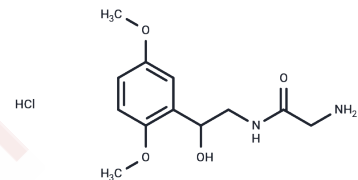


## Midodrine hydrochloride

## Chemical Properties

CAS No. :	3092-17-9
Formula:	C <sub>12</sub> H <sub>19</sub> ClN <sub>2</sub> O <sub>4</sub>
Molecular Weight:	290.74
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	Midodrine is converted to its active metabolite, desglymidodrine by deglycination reaction. Desglymidodrine selectively binds to and activates alpha-1-adrenergic receptors of the arteriolar and venous vasculature. This causes smooth muscle contraction and leads to an elevation of blood pressure. Desglymidodrine diffuses poorly across the blood-brain barrier and is therefore not associated with effects on the central nervous system. Midodrine hydrochloride (Pro-Amatine) is the hydrochloride salt form of midodrine, a direct-acting prodrug and sympathomimetic agent with antihypotensive properties.
Targets(IC50)	Adrenergic Receptor
In vivo	The preferential cyclooxygenase-2 inhibitor etoricoxib significantly reduces the anticonvulsant action of phenytoin and significantly increases the beneficial action of diazepam against maximal electroshock and pentylenetetrazole-induced convulsions in a mouse model[1]. Etoricoxib has the potential to act as an anti-apoptotic and anti-proliferative agent in the colon[2].

## Solubility Information

Solubility	DMSO: 100 mg/mL (343.95 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.4395 mL	17.1975 mL	34.395 mL
5 mM	0.6879 mL	3.4395 mL	6.879 mL
10 mM	0.3439 mL	1.7197 mL	3.4395 mL
50 mM	0.0688 mL	0.3439 mL	0.6879 mL

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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

Buckner SA, et al. Eur J Pharmacol. 2002 Aug 2;449(1-2):159-65.

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