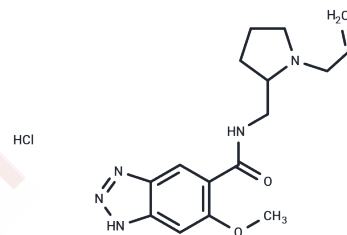


## Alizapride hydrochloride

## Chemical Properties

CAS No. :	59338-87-3
Formula:	C <sub>16</sub> H <sub>21</sub> N <sub>5</sub> O <sub>2</sub> ·HCl
Molecular Weight:	351.83
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	Alizapride hydrochloride (Alizapride HCl) is a dopamine receptor antagonist used for the treatment of nausea and vomiting.
Targets(IC50)	Dopamine Receptor
In vitro	Intravenous administration of 5 mg/kg Alizapride in rats effectively counteracts the reduction in gastrointestinal motility induced by the given dose of Apomorphine. Alizapride exhibits low toxicity in mice and rats, particularly when administered extragastrically. Following oral or extragastric administration, Alizapride is primarily excreted in its unmodified form; however, approximately 25% of Alizapride undergoes metabolic transformation before excretion.
In vivo	Alizapride contains an N-allyl moiety, which may undergo N-deallylation and/or epoxidation, potentially leading to the formation of chemically reactive metabolites.

## Solubility Information

Solubility	H <sub>2</sub> O: 50 mg/mL (142.11 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 40 mg/mL (113.69 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: 2 mg/mL (5.68 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

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	1mg	5mg	10mg
1 mM	2.8423 mL	14.2114 mL	28.4228 mL
5 mM	0.5685 mL	2.8423 mL	5.6846 mL
10 mM	0.2842 mL	1.4211 mL	2.8423 mL
50 mM	0.0568 mL	0.2842 mL	0.5685 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

Aprile S, et al. *J Mass Spectro*, 2012, 47(6), 737-750.

Dhasmana KM, et al. *Pharmacol Res*, 1993, 27(4), 335-347.

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