

## Piperazine citrate

## Chemical Properties

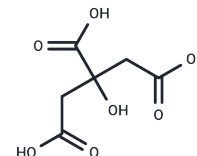
CAS No. : 144-29-6

Formula: C<sub>24</sub>H<sub>46</sub>N<sub>6</sub>O<sub>14</sub>

Molecular Weight: 642.65

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	Piperazine citrate, an organic compound, consists of a six-membered ring, containing two nitrogen atoms at opposite positions in the ring. It used as an Anthelmintic.
Targets(IC50)	GABA Receptor,Parasite
In vivo	Fifteen of 20 Wistar albino rats were treated with various doses of the anthelmintic agent piperazine citrate (15, 30, and 60 mg/kg body weight). All 20 rats were subsequently given barium chloride, 20 mg/kg. The 5 rats (25%) that did not receive piperazine citrate developed ventricular fibrillations after barium chloride was administered to them, via one of the external jugular veins, and died shortly thereafter. The remaining 75% of the rats were fully protected by all the doses of piperazine citrate employed for the study. Barium chloride did not produce any dysrhythmic phenomenon in the piperazine-protected rats. Conversely, sinus rhythm was maintained in the electrocardiogram of all the rats, with every P wave followed by a normal QRS-T complex[1].

## Solubility Information

Solubility	DMSO: 2.5 mg/mL (3.89 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	1.5561 mL	7.7803 mL	15.5606 mL
5 mM	0.3112 mL	1.5561 mL	3.1121 mL
10 mM	0.1556 mL	0.778 mL	1.5561 mL
50 mM	0.0311 mL	0.1556 mL	0.3112 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.

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