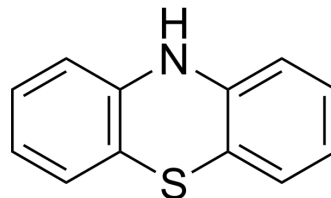


## Phenothiazine

Cat. No.:	HY-Y0055		
CAS No.:	92-84-2		
Molecular Formula:	C <sub>12</sub> H <sub>9</sub> NS		
Molecular Weight:	199.27		
Target:	Antibiotic; Fungal; Bacterial; Parasite		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (501.83 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	5.0183 mL	25.0916 mL	50.1832 mL
		5 mM	1.0037 mL	5.0183 mL	10.0366 mL
		10 mM	0.5018 mL	2.5092 mL	5.0183 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (12.55 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.55 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Phenothiazine is an antibiotic which has insecticidal, fungicidal, antibacterial and anthelmintic activities. Phenothiazine also can be used for the research of neurological diseases <sup>[1][2]</sup> .
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### CUSTOMER VALIDATION

- Cell Commun Signal. 2023 May 25;21(1):123.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

- [1]. Mitchell SC, et, al. The toxicity of phenothiazine. *Drug Metabol Drug Interact.* 1994;11(3):201-35.
- [2]. Ohlow MJ, et, al. Phenothiazine: the seven lives of pharmacology's first lead structure. *Drug Discov Today.* 2011 Feb;16(3-4):119-31.
- [3]. Jun-hua Xiao, et al. Xiao JH, Zhang YL, Ding LL, Feng XL, Wang JL. Effects of isoliensinine on proliferation of porcine coronary arterial smooth muscle cells induced by phenylephrine. *Yao Xue Xue Bao.* 2005 Feb;40(2):105-10.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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