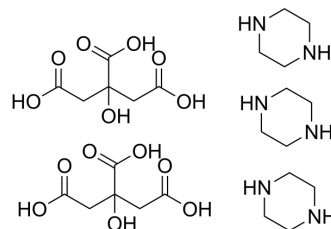


Piperazine citrate

Cat. No.:	HY-17599
CAS No.:	144-29-6
Molecular Formula:	$C_6H_8O_7 \cdot 3/2 C_4H_{10}N_2$
Molecular Weight:	321.33
Target:	GABA Receptor; Parasite
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 2.17 mg/mL (6.75 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1121 mL	15.5603 mL	31.1207 mL
	5 mM	0.6224 mL	3.1121 mL	6.2241 mL
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Piperazine (1,4-Diazacyclohexane) citrate is a gamma-aminobutyric acid (GABA) agonist^[1]. Piperazine citrate is a vital building block and is an essential core in numerous marketed agents with diverse pharmacological activities^[2].

In Vitro

Piperazine citrate is a promising scaffold with analgesic and anti-inflammatory potential^[3].
Piperazine citrate is a key substructure for antidepressants^[4].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Lovell RA. Ivermectin and piperazine toxicoses in dogs and cats. *Vet Clin North Am Small Anim Pract.* 1990;20(2):453-468.
- [2]. Girase PS, et al. An appraisal of anti-mycobacterial activity with structure-activity relationship of piperazine and its analogues: A review. *Eur J Med Chem.* 2021;210:112967.
- [3]. Jain A, et al. Piperazine: A Promising Scaffold with Analgesic and Anti-inflammatory Potential. *Drug Res (Stuttg).* 2021;71(2):62-72.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA