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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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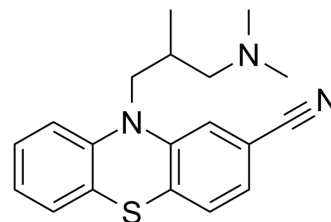
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Cyamemazine

Cat. No.:	HY-14264		
CAS No.:	3546-03-0		
Molecular Formula:	C ₁₉ H ₂₁ N ₃ S		
Molecular Weight:	323.46		
Target:	5-HT Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (309.16 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.0916 mL	15.4579 mL	30.9157 mL
		5 mM		0.6183 mL	3.0916 mL	6.1831 mL
		10 mM		0.3092 mL	1.5458 mL	3.0916 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 (7.73 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.73 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.73 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Cyamemazine is a neuroleptic agent that contains the phenothiazine chromophore. Cyamemazine is often used as an anxiolytic. Cyamemazine is a potent 5-HT ₃ (K _i of 12 nM), 5-HT _{2A} (K _i = 1.5 nM) and 5-HT _{2C} (K _i of 75 nM) receptors antagonist with antipsychotic activity ^{[1][2]} .		
IC ₅₀ & Target	5-HT _{2A} Receptor 1.5 nM (K _i)	5-HT _{2C} Receptor 12 nM (K _i)	5-HT ₃ Receptor 75 nM (K _i)

In Vitro	Cyamemazine exhibits a high affinity for dopamine receptors, which is consistent with its antipsychotic activity. The antagonist activity of Cyamemazine at muscarinic receptors is consistent with its affinity for M₁ (K_i = 13 nM), M₂ (K_i = 42 nM), M₃ (K_i = 321 nM), M₄ (K_i = 12 nM), and M₅ (K_i = 35 nM) receptors^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Cyamemazine behaves as an antagonist at the 5-HT₃, 5-HT_{2C}, and 5-HT_{2A} receptors in 5-HT₃-dependent contraction of isolated guinea pig ileum and bradycardic responses in rats, in 5-HT_{2C}-dependent phospholipase C stimulation in the rat brain membrane, and in 5-HT_{2A}-dependent contraction of isolated rat aorta rings and isolated guinea pig trachea. Cyamemazine antagonizes 5-HT₃ and 5-HT_{2C} receptors and that this effect is partially involved in its therapeutic activity in anxiety disorders. Acute administration of low doses of Cyamemazine can reduce extracellular dopamine and metabolite concentrations in rat striatum^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Bourin M, et al. Preclinical and clinical pharmacology of cyamemazine: anxiolytic effects and prevention of alcohol and benzodiazepine withdrawal syndrome. CNS Drug Rev. 2004 Fall;10(3):219-29.
- [2]. Vendrell-Criado V, et al. Photobehavior of the antipsychotic drug cyamemazine in a supramolecular gel protective environment. J Photochem Photobiol B. 2020 Jan;202:111686.

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

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