

Product Name: Chlorpromazine HCl Revision Date: 04/25/2023

HCI

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Chlorpromazine HCI

Cat. No.:	B1480
CAS No.:	69-09-0 ⁻¹⁰⁰⁰¹¹⁻¹⁰
Formula:	C17H19CIN2S·HCI
M.Wt:	355.33
Synonyms:	
Target:	Neuroscience
Pathway:	Dopamine Receptor
Storage:	Store at -20°C

Solvent & Solubility

≥17.8 mg/mL in DMSO, ≥74.8 mg/mL in EtOH, ≥71.4 mg/mL in H2O

In Vitro	Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	Slock Solutions	1 mM	2.8143 mL	14.0714 mL	28.1429 mL
		5 mM	0.5629 mL	2.8143 mL	5.6286 mL
	.0.	10 mM	0.2814 mL	1.4071 mL	2.8143 mL

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

Biological Activity

Shortsummary

dopamine receptor antagonist

IC₅₀ & Target

210	
obtaining es and/or d below -	
d mIPSC	
ie 20	

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		amplitude. Besides, Chlorpromazine HCl significantly accelerated the decay of
		mIPSC at the concentrations \ge 30 μ M in a dose-dependent manner. However,
		there was no significant difference on the 10 \sim 90% rise time between the
		control group and the Chlorpromazine HCl treatment groups.
	Animal experiment	
Animal models: Dosage form: Applications:	Animal models:	A rat model of hypoxia
	Dosage form:	30 mg/kg; i.p.
	Applications:	In a rat model of hypoxia, Chlorpromazine HCI reduced irreversible loss of
	synaptic transmission in brain tissues. Chlorpromazine HCl also significantly	
		delayed the occurrence of the hypoxia-induced spreading depression in rats by
		slowing down the influx of Ca2+ into neurons.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
		slightly differ with the theoretical value. This is caused by an experimental
		system error and it is normal.
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		E Contant
Produ	ct Citations	

See more customer validations on www.apexbt.com.

References

Mozrzymas JW, Barberis A, Michalak K, Cherubini E. Chlorpromazine inhibits miniature GABAergic currents by reducing the binding and by increasing the unbinding rate of GABAA receptors. J Neurosci. 1999 Apr 1;19(7):2474-88.
Balestrino M, Somjen GG. Chlorpromazine protects brain tissue in hypoxia by delaying spreading depression-mediated calcium influx. Brain Res. 1986 Oct 22;385(2):219-26.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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