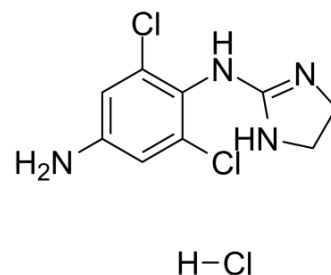


Apraclonidine hydrochloride

Cat. No.:	HY-12720A		
CAS No.:	73218-79-8		
Molecular Formula:	C ₉ H ₁₁ Cl ₃ N ₄		
Molecular Weight:	281.57		
Target:	Others		
Pathway:	Others		
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 : 125 mg/mL (443.94 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.5515 mL	17.7576 mL	35.5151 mL
5 mM	0.7103 mL	3.5515 mL	7.1030 mL
10 mM	0.3552 mL	1.7758 mL	3.5515 mL

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

BIOLOGICAL ACTIVITY

Description

Apraclonidine hydrochloride (ALO 2145), a selective α₂ and weak α₁ receptor agonist activity, effectively lowers intraocular pressure (IOP) in human eyes. Apraclonidine hydrochloride is a topical ophthalmic solution and has the ability to elevate the eye lid^{[1][2]}.

In Vitro

Apraclonidine hydrochloride (ALO 2145) is more commonly used topically for glaucoma, as it penetrates the cornea and blood-brain barrier to a lesser extent and, thus, has fewer adverse systemic effects^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Apraclonidine hydrochloride (ALO 2145) is effective in animal models of elevated IOP as well as glaucoma in humans. The ocular hypotensive effects of Apraclonidine are usually attributed to reduced aqueous humor synthesis and vasoconstrictor actions at the anterior segment branches of the ophthalmic artery^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wijemanne S, et al. Apraclonidine in the treatment of ptosis. J Neurol Sci. 2017;376:129-132.

[2]. Searles RV, et al. Aqueous humor dynamics in anesthetized rats infused with intracameral apraclonidine. Pharmacology. 1999;58(4):220-226.

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