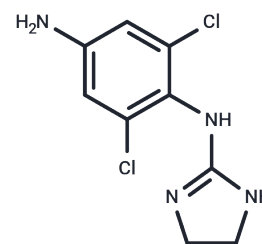


## Apraclonidine

## Chemical Properties

CAS No. :	66711-21-5
Formula:	C <sub>9</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>4</sub>
Molecular Weight:	245.11
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Apraclonidine (ALO 2145) is a selective $\alpha_2$ and weak $\alpha_1$ receptor agonist that effectively lowers intraocular pressure (IOP) in human eyes. Apraclonidine is a topical ophthalmic solution [1] [2].
Targets(IC50)	Others,Adrenergic Receptor
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 therefore has fewer adverse systemic effects [2].
In vivo	Apraclonidine hydrochloride (ALO 2145) is effective in animal models of elevated IOP and human glaucoma. Its ocular hypotensive effects are typically due to reduced aqueous humor synthesis and vasoconstriction at anterior segment branches of the ophthalmic artery. Apraclonidine (1.15%, single instillation) inhibits 98% of PGE <sub>2</sub> -induced aqueous flare elevation [2] [3]. Animal Model: male rabbits [3]. Dosage: 1.15%. Administration: single instillation. Result: Inhibited PGE <sub>2</sub> -induced elevation of aqueous flare in pigmented rabbits.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0798 mL	20.399 mL	40.798 mL
5 mM	0.816 mL	4.0798 mL	8.1596 mL
10 mM	0.408 mL	2.0399 mL	4.0798 mL
50 mM	0.0816 mL	0.408 mL	0.816 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481