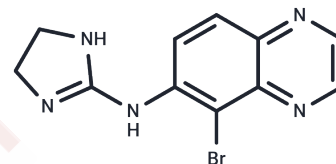


Brimonidine

Chemical Properties

CAS No. :	59803-98-4
Formula:	C ₁₁ H ₁₀ BrN ₅
Molecular Weight:	292.13
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Brimonidine (Bromoxidine) is a drug used as eye drops under the brand names Alphagan and Alphagan-P. It is used to treat open-angle glaucoma or ocular hypertension
Targets(IC50)	Adrenergic Receptor
In vitro	[³ H]Brimonidine is a full agonist at alpha 2-adrenergic receptors labeling at least 2 specific binding sites in the human brain that both have the characteristics of an alpha 2-adrenergic binding site. GTP decreases agonist binding at both of these sites, but with different potencies at each site [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (171.16 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.42 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4231 mL	17.1157 mL	34.2313 mL
5 mM	0.6846 mL	3.4231 mL	6.8463 mL
10 mM	0.3423 mL	1.7116 mL	3.4231 mL
50 mM	0.0685 mL	0.3423 mL	0.6846 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.

Reference

Chopin, P., F.C. Colpaert, and M. Marien, Effects of alpha-2 adrenoceptor agonists and antagonists on circling behavior in rats with unilateral 6-hydroxydopamine lesions of the nigrostriatal pathway. *J Pharmacol Exp Ther*, 1999. 288(2): p. 798-804.

Andorn, A.C., M.A. Carlson, and R.C. Gilkeson, Specific [³H]UK 14,304 binding in human cortex occurs at multiple high affinity states with alpha 2-adrenergic selectivity and differing affinities for GTP. *Life Sci*, 1988. 43(22): p. 1805-12.

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