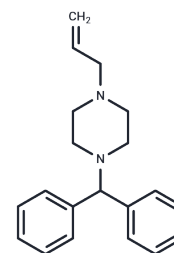


Aligeron

Chemical Properties

CAS No. :	70713-45-0
Formula:	C ₂₀ H ₂₄ N ₂
Molecular Weight:	292.42
Storage:	Store at low temperature 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	Aligeron, a non-selective prostaglandin (PG) antagonist, inhibits PGF ₂ α- and PGE ₂ -induced blood pressure decreases in cats and can prevent PGF ₂ α-induced diarrhea in mice and PGE ₂ -induced paw edema in rats. Additionally, Aligeron is recognized for its antioxidant-protective effect against vascular complications.
Targets(IC ₅₀)	Prostaglandin Receptor
In vitro	Aligeron demonstrates a wide-ranging spectrum of antagonistic activity against various spasmogens in diverse isolated organs. In experiments conducted on the isolated perfused rabbit artery, the antagonistic effects of Aligeron against the vasoconstrictor impacts of noradrenaline and adrenaline are evident.[1] The effect of Aligeron in vitro lacks selectivity and is probably due to interference with the action of Ca ²⁺ . [3]
In vivo	Aligeron(5 mg/kg; i.v.) increases cortical resistance to hypoxia and accelerates the recovery of cortical bioelectrical activity in hypoventilation hypoxia. Aligerons show a protective effect in KCl- and AMP-induced depressions manifested, And show a decrease in the degree and duration of the depression.[2]

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4197 mL	17.0987 mL	34.1974 mL
5 mM	0.6839 mL	3.4197 mL	6.8395 mL
10 mM	0.342 mL	1.7099 mL	3.4197 mL
50 mM	0.0684 mL	0.342 mL	0.6839 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

Miyares K, et al. Antagonistic activity of aligeron and papaverine against different smooth muscle stimuli. *Methods Find Exp Clin Pharmacol.* 1985 Sep;7(9):473-6.

Dimov S, et al. Effect of aligeron and cinnarizine in models of general and local depression of the cortical bioelectrical activity in cats. *Methods Find Exp Clin Pharmacol.* 1983;5(2):89-95.

Nikolov R, et al. Study on the prostaglandin antagonistic activity of aligeron and piracetam. *Methods Find Exp Clin Pharmacol.* 1982 Aug-Sep;4(6):387-95.

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