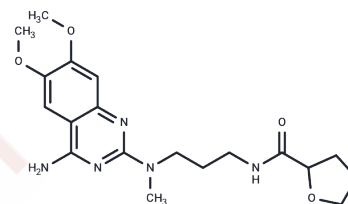


Alfuzosin

Chemical Properties

CAS No. :	81403-80-7
Formula:	C ₁₉ H ₂₇ N ₅ O ₄
Molecular Weight:	389.45
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	Alfuzosin (SL 77499) is an orally available, competitive α 1-adrenoceptor antagonist. Alfuzosin induces smooth muscle relaxation in the bladder neck and prostate. Alfuzosin has been used to study benign prostatic hypertrophy, lower urinary tract symptoms (LUTS), and ejaculatory dysfunction (EJD).
Targets(IC50)	Adrenergic Receptor
In vitro	In male Wistar rats weighing 250-450 g, Alfuzosin (10 mg/kg; oral administration; single dose) increased prostatic concentrations to 4.1-8.6 times higher than plasma concentration[1].
In vivo	In male Wistar rats weighing 250-450 g, Alfuzosin (10 mg/kg; oral administration; single dose) increases prostatic concentrations to 4.1-8.6 times higher than plasma concentration[1].

Solubility Information

Solubility	DMSO: 40 mg/mL (102.71 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: 2.5 mg/mL (6.42 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	2.5677 mL	12.8386 mL	25.6772 mL
5 mM	0.5135 mL	2.5677 mL	5.1354 mL
10 mM	0.2568 mL	1.2839 mL	2.5677 mL
50 mM	0.0514 mL	0.2568 mL	0.5135 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

Martin DJ, et al. Relationship between the effects of alfuzosin on rat urethral and blood pressures and its tissue concentrations. *Life Sci.* 1998;63(3):169-76.

Wilde MI, et al. Alfuzosin. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic potential in benign prostatic hyperplasia. *Drugs.* 1993 Mar;45(3):410-29.

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