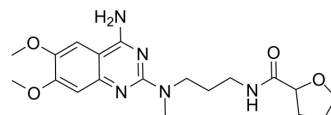


Alfuzosin

Cat. No.:	HY-B0192		
CAS No.:	81403-80-7		
Molecular Formula:	C ₁₉ H ₂₇ N ₅ O ₄		
Molecular Weight:	389.45		
Target:	Adrenergic Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (128.39 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.5677 mL	12.8387 mL	25.6773 mL
	5 mM	0.5135 mL	2.5677 mL	5.1355 mL
	10 mM	0.2568 mL	1.2839 mL	2.5677 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 3 mg/mL (7.70 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 3 mg/mL (7.70 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 3 mg/mL (7.70 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Alfuzosin (SL 77499-10) is an orally active, selective and competitive α₁-adrenoceptor antagonist. Alfuzosin relaxes the muscles of the prostate and bladder neck, aiding in urination. Alfuzosin can be used in study of benign prostatic hyperplasia (BPH)^{[1][2]}.

In Vivo

Alfuzosin hydrochloride (10 mg/kg, p.o.; single) potently antagonizes phenylephrine-induced increases in urethral and arterial pressures up to 6 hours post dosing^[1].

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

Animal Model:	Male Wistar rats (250-450 g) ^[1] .
Dosage:	10 mg/kg
Administration:	Oral administration; single.
Result:	Increased prostatic concentrations to 4.1-8.6 times higher than plasma concentration.

CUSTOMER VALIDATION

- Protein Cell. 2019 Mar;10(3):178-195.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. 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.
- [2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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