Product Data Sheet

Alfuzosin hydrochloride

Cat. No.: HY-B0192A CAS No.: 81403-68-1 Molecular Formula: $C_{19}H_{28}CIN_5O_4$ Molecular Weight: 425.91

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H₂O: 50 mg/mL (117.40 mM; Need ultrasonic)

DMSO: 25 mg/mL (58.70 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.3479 mL	11.7396 mL	23.4791 mL
	5 mM	0.4696 mL	2.3479 mL	4.6958 mL
	10 mM	0.2348 mL	1.1740 mL	2.3479 mL

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

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.88 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: ≥ 2.08 mg/mL (4.88 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.88 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Alfuzosin (SL 77499-10) hydrochloride is an orally active, selective and competitive α 1-adrenoceptor antagonist. Alfuzosin hydrochloride relaxes the muscles of the prostate and bladder neck, aiding in urination. Alfuzosin hydrochloride 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 $(250-450 \text{ g})^{[1]}$.	
Dosage:	10 mg/kg	
Administration:	Oral administration; single.	
Administration.	Orat 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.

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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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