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Product Information

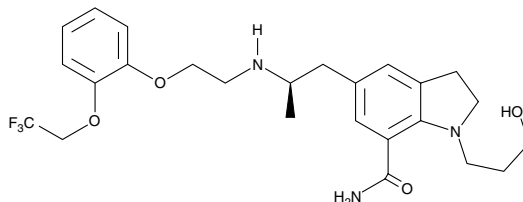


Silodosin

Item No. 14866

CAS Registry No.: 160970-54-7
Formal Name: 2,3-dihydro-1-(3-hydroxypropyl)-5-
[(2R)-2-[[2-[2-(2,2,2-trifluoroethoxy)
phenoxy]ethyl]amino]propyl]-1H-
indole-7-carboxamide

Synonym: KMD-3213
MF: C₂₅H₃₂F₃N₃O₄
FW: 495.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 269, 311 nm



Laboratory Procedures

For long term storage, we suggest that silodosin be stored as supplied at -20°C. It should be stable for at least two years.

Silodosin is supplied as a crystalline solid. A stock solution may be made by dissolving the silodosin in the solvent of choice. Silodosin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of silodosin in these solvents is approximately 25 mg/ml.

Silodosin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, silodosin should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Silodosin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Silodosin is a potent α_{1A} -adrenoceptor antagonist ($K_i = 0.036$ nM).^{1,2} It shows selectivity for the prostatic adrenoceptor.^{1,3} As a result, it is effective against lower urinary tract symptoms associated with benign prostatic hyperplasia.^{4,5}

References

1. Moriyama, N., Akiyama, K., Murata, S., *et al.* KMD-3213, a novel α_{1A} -adrenoceptor antagonist, potently inhibits the functional α_1 -adrenoceptor in human prostate. *Eur. J. Pharmacol.* **331**, 39-42 (1997).
2. Li, M.-Y., Tsai, K.-C., and Xia, L. Pharmacophore identification of α_{1A} -adrenoceptor antagonists. *Bioorg. Med. Chem. Lett.* **15**(3), 657-664 (2005).
3. Akiyama, K., Hora, M., Tatemichi, S., *et al.* KMD-3213, a uroselective and long-acting α_{1A} -adrenoceptor antagonist, tested in a novel rat model. *J. Pharmacol. Exp. Ther.* **291**(1), 81-91 (1999).
4. Ding, H., Du, W., Hou, Z.-Z., *et al.* Silodosin is effective for treatment of LUTS in men with BPH: A systematic review. *Asian J. Androl.* **15**(1), 121-128 (2013).
5. Yoshida, M., Kudoh, J., Homma, Y., *et al.* Safety and efficacy of silodosin for the treatment of benign prostatic hyperplasia. *Clin. Interv. Aging* **6**, 161-172 (2011).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14866

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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