

**Product Name:** Silodosin

**Catalog No.:** 6663

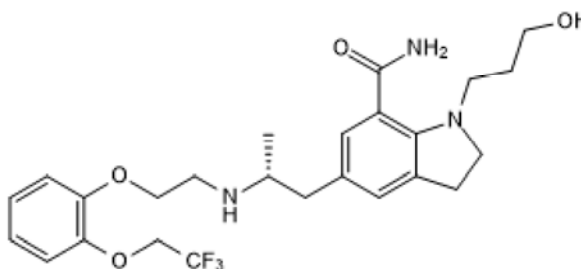
**Batch No.:** 1

CAS Number: 160970-54-7

IUPAC Name: 2,3-Dihydro-1-(3-hydroxypropyl)-5-[(2*R*)-2-[[2-[2-(2,2,2-trifluoroethoxy)phenoxy]ethyl]amino]propyl]-1*H*-indole-7-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>25</sub>H<sub>32</sub>F<sub>3</sub>N<sub>3</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 495.53  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -17.8 (Concentration = 1.01, Solvent = Methanol)  
**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 60.59  | 6.51     | 8.48     |
| Found       | 60.55  | 6.53     | 8.37     |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Selective  $\alpha_{1A}$  adrenoceptor antagonist ( $K_i = 0.036$  nM). Displays >55 fold selectivity for  $\alpha_{1A}$  over  $\alpha_{1B}$  and  $\alpha_{1D}$ . Inhibits norepinephrine-induced  $[Ca^{2+}]_i$  increase in  $\alpha_{1A}$  expressing CHO cells ( $IC_{50} = 0.32$  nM). Inhibits norepinephrine-induced contraction of isolated human prostate tissue.

**Physical and Chemical Properties:**

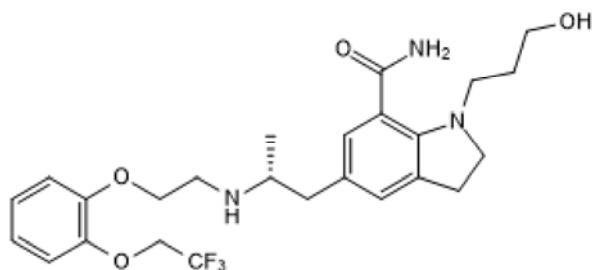
Batch Molecular Formula:  $C_{25}H_{32}F_3N_3O_4$

Batch Molecular Weight: 495.53

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Moriyama et al** (1997) KMD-3213, a novel alpha1A-adrenoceptor antagonist, potently inhibits the functional alpha1-adrenoceptor in human prostate. *Eur.J.Pharmacol.* **331** 39. PMID: 9274928.

**Shibata et al** (1995) KMD-3213, a novel, potent, alpha 1a-adrenoceptor-selective antagonist: characterization using recombinant human alpha 1-adrenoceptors and native tissues. *Mol.Pharmacol.* **48** 250. PMID: 7651358.

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