

## Product Information

### Silodosin

**Cat. No.:** X23-12-YM486

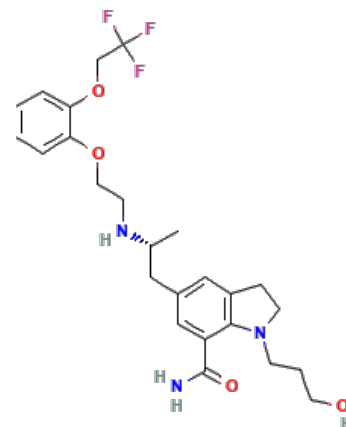
**Size:** 5 mg; 10 mg; 50 mg; 100 mg

**CAS Number:** 160970-54-7

**PubChem CID:** 5312125

**Synonym:** 160970-54-7; KAD 3213

**This product is for research use only and is not intended for diagnostic use.**



### Product Information

<b>Description</b>	Silodosin (rapaflo), soluble in DMSO and ethanol and insoluble in water, inhibits the signaling pathway between G-protein-coupled receptors (GPCRs) and G proteins. It targets $\alpha$ 1-adrenergic receptor.
<b>Molecular Weight</b>	495.5
<b>Molecular Formula</b>	$C_{25}H_{32}F_3N_3O_4$
<b>Targets</b>	$\alpha$ 1-Adrenergic receptor
<b>IUPAC Name</b>	4-[2-( <i>Tert</i> -butylamino)-1-hydroxyethyl]-2-(hydroxymethyl)phenol;sulfuric acid
<b>InChI</b>	InChI=1S/C25H32F3N3O4/c1-17(30-8-12-34-21-5-2-3-6-22(21)35-16-25(26, 27)28)13-18-14-19-7-10-31(9-4-11-32)23(19)20(15-18)24(29)33/h2-3, 5-6, 14-15, 17, 30, 32H, 4, 7-13, 16H2, 1H3, (H2, 29, 33)/t17-/m1/s1
<b>InChI Key</b>	PNCPYILNMDWPEY-QGZVFWFLSA-N
<b>Canonical SMILES</b>	<chem>CC(CC1=CC2=C(C(=C1)C(=O)N)N(CC2)CCCO)NCCOC3=CC=CC=C3OCC(F)(F)F</chem>
<b>Isomeric SMILES</b>	<chem>C[C@H](CC1=CC2=C(C(=C1)C(=O)N)N(CC2)CCCO)NCCOC3=CC=CC=C3OCC(F)(F)F</chem>
<b>Form</b>	Lyophilized powder
<b>Purity</b>	>98%
<b>Solubility</b>	DMSO: 97 mg/mL (195.74 mM); Water: insoluble; Ethanol: 97 mg/mL (195.74 mM)
<b>Stability</b>	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
<b>Applications</b>	Silodosin (rapaflo) can be used for its effect on selectively blocking alpha-1 adrenergic receptors in the prostate gland, leading to relaxation of smooth muscle tissue in the prostate and the bladder neck, which helps improve urinary flow and reduce symptoms of obstruction.



**Storage**

Store at -20°C, and keep desiccated.

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