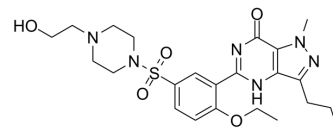


Lodenafil

Cat. No.:	HY-123210		
CAS No.:	139755-85-4		
Molecular Formula:	C ₂₃ H ₃₂ N ₆ O ₅ S		
Molecular Weight:	504.6		
Target:	Phosphodiesterase (PDE)		
Pathway:	Metabolic Enzyme/Protease		
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 : ≥ 250 mg/mL (495.44 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9818 mL	9.9088 mL	19.8177 mL
	5 mM	0.3964 mL	1.9818 mL	3.9635 mL
	10 mM	0.1982 mL	0.9909 mL	1.9818 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: ≥ 2.08 mg/mL (4.12 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.12 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Lodenafile is a potent phosphodiesterase type 5 (PDE5) inhibitor for the treatment of erectile dysfunction (ED)^[1].

IC₅₀ & Target

PDE5

In Vitro

Lodenafile (0-100 μM, 20 min) induces relaxations in Phenylephrine (10 μM)-precontracted rabbit and human strips corpus cavernosum^[1].

Lodenafile (0-1 μM, 5 min) inhibits cGMP hydrolysis (IC₅₀: 0.022 μM)^[1].

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

In Vivo

Lodenafil (10 mg, p.o., male Beagle dogs, PK assay) shows a $T_{1/2}$ of 4.32 h, C_{max} of 1357 ng/mL, AUC_{0-24} of 9091 ng/h/mL^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Toque HA, et al. Pharmacological characterization of a novel phosphodiesterase type 5 (PDE5) inhibitor lodenafil carbonate on human and rabbit corpus cavernosum. Eur J Pharmacol. 2008 Sep 4;591(1-3):189-95.

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

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