Product Datasheet

Levitra

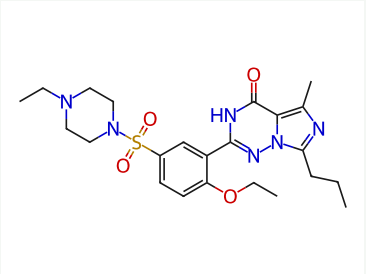
Catalog No. **BP-01996** · CAS **224785-90-4** · Form **free base** · Physical state **solid** · Color **white to off-white** · Version **1.0** · Revision **2026-11-10**

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Target	Research area
Phosphodiesterase (PDE)	**Endocrinology; Cancer**

Molecular formula	$C_{23}H_{32}N_6O_4S$
Molecular weight	**488.6030**

STRUCTURE



DESCRIPTION

Vardenafil is a selective and orally active inhibitor of phosphodiesterase-5 (PDE5), with an IC50 of 0.7 nM. Vardenafil shows inhibitory towards PDE1, PDE6 with IC50s of 180 nM, and 11 nM, while IC50s are >1000 nM for PDE3 and PDE4.

BIOLOGICAL ACTIVITY

Vardenafil is a selective and orally active inhibitor of phosphodiesterase-5 (PDE5), with an IC50 of 0.7 nM. Vardenafil shows inhibitory towards PDE1, PDE6 with IC50s of 180 nM, and 11 nM, while IC50s are >1000 nM for PDE3 and PDE4. Vardenafil competitively inhibits cyclic guanosine monophosphate (cGMP) hydrolysis and thus increases cGMP levels.

SOLUBILITY

Soluble in DMSO

REFERENCES

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[2]. Ashour AE, et al. Vardenafil dihydrochloride. Profiles Drug Subst Excip Relat Methodol. 2014;39:515-544.

[3]. Gresser U, et al. Erectile dysfunction: comparison of efficacy and side effects of the PDE-5 inhibitors sildenafil, vardenafil and tadalafil--review of the literature. Eur J Med Res. 2002 Oct 29. 7(10):435-46.

[4]. Oudot A, et al. Combination of BAY 60-4552 and vardenafil exerts proerectile facilitator effects in rats with cavernous nerve injury: a proof of concept study for the treatment of phosphodiesterase type 5 inhibitor failure. Eur Urol. 2011 Nov. 60(5):1020-

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