



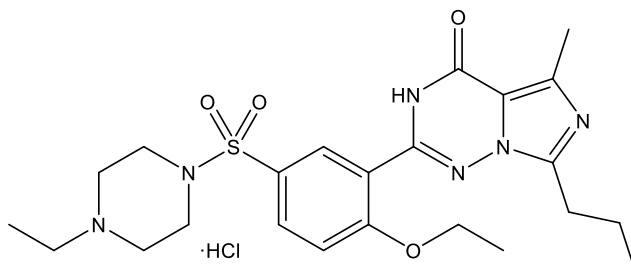
Catalog #10-1152

Vardenafil HCl

CAS# 224785-91-5

2-[2-Ethoxy-5-[(4-ethyl-1-piperazinyl)sulfonyl]phenyl]-5-methyl-7-propyl-imidazo[5,1-f][1,2,4]triazin-4(1H)-one, hydrochloride ; BAY 38-9456

Lot # E103721



A potent and selective inhibitor of phosphodiesterase 5 (PDE5), $IC_{50}=0.2 - 1.2$ nM and PDE6, $IC_{50}=2$ nM.^{1,2} Agents that raise intracellular cGMP levels represent potential therapeutics for cognitive disorders.³ Clinically useful agent for male erectile dysfunction.

- 1) Card *et al.* (2004) *Structural basis for the activity of drugs that inhibit phosphodiesterases*; Structure **12** 2233
- 2) Boyle *et al.* (2005) *Optimization of purine based PDE1/PDE5 inhibitors to a potent and selective PDE5 inhibitor for the treatment of male ED*; Bioorg. Med. Chem. Lett. **15** 2365
- 3) Kafi *et al.* (2026) *The PDE5 inhibitor vardenafil enhances glutamatergic transmission through amyloid-beta and cellular prion protein*; Neurotherapeutics **23** e00941

PHYSICAL DATA

Molecular Weight:	525.07
Molecular Formula:	$C_{23}H_{32}N_6O_4S \cdot HCl$
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (50 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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