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## **Product Information**

Product ID V0269

CAS No. 224789-15-5

Chemical Name 2-[2-ethoxy-5-(4-ethylpiperazin-1-yl)sulfonylphenyl]-5-methyl-7-

1H-imidazo[5,1-f][1,2,4]triazin-4-one;dihydrochloride

Synonym

Formula  $C_{23}H_{32}N_6O_4S \cdot 2HCI$ 

Formula Wt. 561.52

**Melting Point** 

Purity ≥99% Solubility

2HCI

## **Pricing and Availability**

Bulk quanitites available upon request

Product ID	Size	List Price
V0269	10 mg	\$87.60
V0269	25 mg	\$126.30
V0269	100 mg	\$340.30

Store Temp Ambient Ship Temp Ambient

**Description** Vardenafil is a centrally-acting phosphodiesterase 5 (PDE5) inhibitor that is clinically used to treat erectile dysfunction. Vardenafil also exhibits antioxidative and antihypertensive activities and shows some potential for synergistic chemotherapeutic ability through its modulation of cGMP-NO signaling. This compound increases expression of NO and eNOS as well as activity of superoxide dismutase, decreasing oxidative stress, pulmonary vascular resistance, and right ventricular hypertrophy and increasing cardiac output in animal models of pulmonary arterial hypertension (PAH). Vardenafil decreases proteinuria and glomerular damage in animal models of diabetic nephropathy-induced cGMP pathway dysfunction. In cellular models, vardenafil decreases secretion of IL-8 and expression of oxidative LDLR (LOX-1), suggesting potential benefit in the treatment of benign prostatic hyperplasia/low urinary tract syndrome (BPH/LUTS).

References Vignozzi L, Gacci M, Cellai I, et al. PDE5 inhibitors blunt inflammation in human BPH: a potential mechanism of action for PDE5 inhibitors in LUTS. Prostate. 2013 Sep;73(13):1391-402. PMID: 23765639.

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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.