
Product Data Sheet

Product Name: Vardenafil

Cat. No.: GC15242

Chemical Properties

Cas. No. 224785-90-4

Chemical Name 2-[2-ethoxy-5-(4-ethylpiperazin-1-yl)sulfonylphenyl]-5-methyl-7-propyl-1H-imidazo[5,1-f][1,2,4]triazin-4-one

SMILES CCCC1=NC(=C2N1NC(=NC2=O)C3=C(C=CC(=C3)S(=O)(=O)N4CCN(CC4)CC)OCC)CFormula C₂₃H₃₂N₆O₄S M.Wt 488.6

Solubility ≥ 22.5mg/mL in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Vardenafil is a potent and selective inhibitor of phosphodiesterase type5 (PDE5) with the IC₅₀ value of 0.7 nM in enzymatic assay in vitro[1].

Vardenafil has shown a greater selective inhibition towards PDE5 than PDEs from bovine, with the IC₅₀ values of 180nM, >10000nM, 2500nM, 4000nM and 11nM for PDE1, PDE2, PDE3, PDE4 and PDE6, respectively. Besides, Vardenafil has been reported to significantly enhance the SNP-induced, ACh-induced and transmural electrical stimulation-induced relaxation of human trabecular smooth muscle. Vardenafil has been revealed to increase the amount of cGMP in human corpus cavernosum. Apart from these, Vardenafil has also enhanced the length of penile in the conscious rabbit [1].

References:

[1] Saenz de Tejada I1, Angulo J, Cuevas P, Fernández A, Moncada I, Allona A, Lledó E, Körschen HG, Niewöhner U, Haning H, Pages E, Bischoff E. The phosphodiesterase

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

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inhibitory selectivity and the in vitro and in vivo potency of the new PDE5 inhibitor vardenafil. Int J Impot Res. 2001 Oct;13(5):282-90.

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