
Product Data Sheet

Product Name: Thiosildenafil

Cat. No.: GC18383

Chemical Properties

Cas. No. 479073-79-5

Chemical Name 5-[2-ethoxy-5-[(4-methyl-1-piperazinyl)sulfonyl]phenyl]-1,6-dihydro-1-methyl-3-propyl-7H-pyrazolo[4,3-d]pyrimidine-7-thione

SMILES S=C1C2=C(C(CCC)=NN2C)N=C(C3=C(OCC)C=CC(S(=O)(N4CCN(C)CC4)=O)=C3)N1Formula C₂₂H₃₀N₆O₃S₂ M.Wt 490.6

Solubility DMF: 16 mg/ml, DMF:PBS (pH 7.2)(1:3): 0.25 mg/ml, DMSO: 5 mg/ml 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**

Sildenafil, marketed under the trade name Viagra, is a potent cGMP-specific phosphodiesterase inhibitor that is highly selective for PDE5. While most notable for its use in the treatment of erectile dysfunction, sildenafil's vasorelaxant properties have also been used to control vascular tone in pulmonary arterial hypertension and high-altitude pulmonary edema associated with altitude sickness. Thiosildenafil is a derivative of sildenafil that has been found as an adulterant in dietary supplements advertising sexual enhancement for men. The biological characteristics of thiosildenafil have not been reported.

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

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