

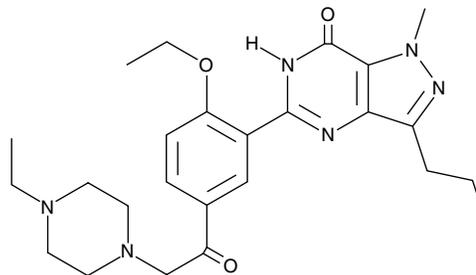
Product Information



Acetildenafil

Item No. 12049

CAS Registry No.: 831217-01-7
Formal Name: 5-[2-ethoxy-5-[2-(4-ethyl-1-piperazinyl)acetyl]phenyl]-1,6-dihydro-1-methyl-3-propyl-7H-pyrazolo[4,3-d]pyrimidin-7-one
Synonym: Hongdenafil
MF: C₂₅H₃₄N₆O₃
FW: 466.6
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 234, 274 nm



Laboratory Procedures

For long term storage, we suggest that acetildenafil be stored as supplied at -20°C. It should be stable for at least two years.

Acetildenafil is supplied as a crystalline solid. A stock solution may be made by dissolving the acetildenafil in the solvent of choice. Acetildenafil is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of acetildenafil in these solvents is approximately 5, 3.3, and 10 mg/ml, respectively.

Acetildenafil is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, acetildenafil should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Acetildenafil has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Acetildenafil is an analog of the phosphodiesterase inhibitor sildenafil (Item No. 10008671), named for a substitution of an acetyl group for a sulfonyl group. This compound has been identified in herbal products marketed as aphrodisiacs.^{1,2} The physiological and toxicological properties of this analog have not been elucidated. This product is intended for forensic and research purposes.

References

1. Venhuis, B.J., Blok-Tip, L., and de Kaste, D. Designer drugs in herbal aphrodisiacs. *Forensic Sci. Int.* **177(2-3)**, 25-27 (2008).
2. Blok-Tip, L., Zomer, B., Bakker, F., *et al.* Structure elucidation of sildenafil analogues in herbal products. *Food Addit. Contam.* **21(8)**, 737-748 (2004).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/12049

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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