PRODUCT INFORMATION



Acetildenafil

Item No. 12049

CAS Registry No.: Formal Name:	831217-01-7 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:	C ₂₅ H ₃₄ N ₆ O ₃	
FW:	466.6	
Purity:	≥98%	Ň /
UV/Vis.:	λ _{max} : 234, 274 nm	
Supplied as:	A crystalline solid	
Storage:	-20°C	
Stability:	≥4 years	

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Acetildenafil is supplied as a crystalline solid. A stock solution may be made by dissolving the acetildenafil in the solvent of choice, which should be purged with an inert gas. Acetildenafil is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). 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.

Description

Acetildenafil is a derivative of the phosphodiesterase 5 (PDE5) inhibitor sildenafil (Item No. 10008671).¹

Reference

1. Lee, E.S., Lee, J.H., Han, K.M., et al. Simultaneous determination of 38 phosphodiestrase-5 inhibitors in illicit erectile dysfunction products by liquid chromatography-electrospray ionization-tandem mass spectrometry. J. Pharm. Biomed. Anal. 83, 171-178 (2013).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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