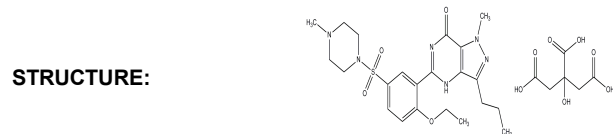


PRODUCT: Sildenafil citrate

ALTERNATE NAME: 1-[[3-(4,7-Dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl)-4-ethoxyphenyl]sulfonyl]-4-methylpiperazine citrate

CATALOG #: 2872-10, 50

AMOUNT: 10 mg, 50 mg



MOLECULAR FORMULA: C₂₂H₃₀N₆O₄S.C₆H₈O₇

MOLECULAR WEIGHT: 666.71

CAS NUMBER: 171599-83-0

APPEARANCE: White solid

SOLUBILITY: DMSO (~25 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C. Protect from air and moisture

DESCRIPTION: Sildenafil citrate is a potent, orally active phosphodiesterase 5 (PDE5) inhibitor (IC₅₀ = 4 nM). Inhibition of PDE5 enhances the relaxation of smooth muscle in a range of vascular tissues by prolonging the nitric oxide/cGMP-mediated activation of cGMP-dependent protein kinase (PKG). Sildenafil also acts as a vasodilator and this property has been used to control vascular tone in pulmonary arterial hypertension and high-altitude pulmonary edema associated with altitude sickness.

REFERENCES: Terrett, N.K., *et al.* (1996). *Bioorg. Med. Chem. Lett.* **6**, 1819-1824.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Apremilast (Cat. No. 2352-5, 25)

Cilostamide (Cat. No. 2560-5, 25)

Cilostazol (Cat. No. 2393-5, 25)

IBMX (Cat. No. 1714-100)

Milrinone (Cat. No. 2163-5, 25)

PhosphoSeek™ PDE5 A Assay Kit (Cat. No. K705-400)

PDE3 Antibody (Cat. No. 3956-200)

(R,S)-Rolipram (Cat. No. 2010-5)

RO 20-1724 (Cat. No. 2042-50, 250)

Roflumilast (Cat. No. 2675-10, 50)

Zaprinast (Cat. No. 1715-25)

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**