

For Research Use Only

Terazosin hydrochloride dihydrate



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Catalog Number: CM00539

产品信息

Catalog Number:
CM00539

CAS号:
70024-40-7

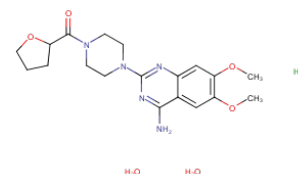
分子式:
 $C_{19}H_{25}N_5O_4 \cdot HCl \cdot 2H_2O$

主要靶点:
Adrenergic Receptor

主要通路:
G蛋白偶联受体|神经科学

分子量:
459.92

溶解度:
Ethanol:<1 mg/mL,DMSO:25 mg/mL (54.4 mM),H₂O:<1 mg/mL



体外活性

Terazosin results in a significant loss of cell viability, via induction of apoptosis in a dose-dependent manner in prostate cancer cells. Terazosin suppresses prostate growth potentially via α 1-adrenoceptor-independent actions gains further support from another study documenting that Doxazosin inhibits proliferation of human vascular smooth muscle cells independently of an antagonistic effect on α 1-adrenoceptor. [1] Terazosin blocks HERG currents in Xenopus oocytes with IC₅₀ of 113.2 mM, while Terazosin blocks HERG channel inhibition in human HEK 293 cells with IC₅₀ of 17.7 mM. [2] Terazosin or genistein treatment inhibits the growth of DU-145 cells in a dose-dependent manner, whereas has no effect on normal prostate epithelial cells. Terazosin results in the genistein-induced arrest of DU-145 cells in G2/M phase being overridden and an increase in apoptotic cells, as evidenced by procaspase-3 activation and PARP cleavage. [3] Terazosin induces cytotoxicity in PC-3 and human benign prostatic cells with an IC₅₀ of more than 100 mM. [4]

体内活性

Terazosin significantly inhibits vascular endothelial growth factor induced angiogenesis in nude mice with an IC₅₀ of 7.9 mM, showing that it has a more potent anti-angiogenic than cytotoxic effect. Terazosin also effectively inhibits vascular endothelial growth factor induced proliferation and tube formation in cultured human umbilical vein endothelial cells (IC₅₀ 9.9 and 6.8 mM, respectively). [4]

描述

Terazosin HCl is a selective α 1-adrenoceptor antagonist, used for treatment of symptoms of an enlarged prostate (BPH).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years

For technical support and original validation data for this product please contact

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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