

Product Name : Sildenafil

Synonyms : —

Cat No. : M11659

CAS Number : 139755-83-2

Molecular Formula : C22H30N6O4S

Formula Weight : 474.58

Chemical Name : ——

Sildenfail is a vasoactive agent used to treat erectile dysfunction and reduce symptoms in patients with pulmonary arterial

hypertension (PAH). Sildenafil elevates levels of the second messenger, cGMP, by inhibiting its breakdown via

Descriptionphosphodiesterase type 5 (PDE5). PDE5 is found in particularly high concentrations in the corpus cavernosum, erectile tissue of the penis. It is also found in the retina and vascular endothelium. Increased cGMP results in vasodilation which

facilitates generation and maintenance of an erection. The vasodilatory effects of sildenafil also help reduce symptoms of

PAH.

Pathway : Angiogenesis

Target : PDE

Receptor : PDE5

Solubility : Water: 3.5 mg/mL

SMILES : CCCC1=NN(C)C2=C1NC(=NC2=O)C1=C(OCC)C=CC(=C1)S(=O)(=O)N1CCN(C)CC1

Storage : (-20℃)

Stability : ≥ 2 years

Reference :

1.Nehra A, et al. World J Urol, 2001, 19(1), 40-45.