## For Research Use Only Sildenafil citrate



## Catalog Number: CM00496

产品信息	Catalog Number: CM00496 CAS문	分子量: 666.7 ※留由·	
	171599-83-0	府府反。 DMS0:66.7 mg/ml (100 mM)	
	分子式: C <sub>28</sub> H <sub>38</sub> N <sub>6</sub> O <sub>11</sub> S	5456.66.7 mg/m2 (100 mm)	
	主要靶点: PDE Autophagy Apoptosis		$\bigcirc$
	<b>主要通路:</b> 代谢 凋亡 自噬		СН <sub>а</sub>
靶点活性	PDE6:33 nM PDE5:3.5 nM		
体外活性	在麻醉的狗体内,Sildenafil citrate增强盆骨神经刺激下阴茎的勃起功能.在Sprague-Dawley大鼠体内,每天Sildenafil(20 mg/kg)以时间剂量依赖的方式改善勃起功能,同时Sildenafil明显减少细胞凋亡指数,并且增加akt和eNOS的磷酸化作用.		
体内活性	在内皮细胞中,Sildenafil通过降低由 citrate是一种强效的PDE V型的可逆;	高血糖引起的氧化应激和增加细胞内Ca2+水平, 选择性抑制剂,其能够有效阻断cGMP的水解作用(	改善胰岛素信号传导NO产生。Sildenafil (Ki ~3 nM)。
细胞实验	Sildenafil is prepared in DMSO approximately 90% confluence (EDTA) solution and seeded into containing 10% FBS for three of different time with various cor without UO126, as indicated. Co After treatment, medium is cha hours. MTT is then dissolved wi well plates are determined usi	and stored, and then diluted with approp e are harvested with 0.1% trypsin/0.01% o a 96-well plate at a density of 2×104 ce Jays, followed by serum starvation for th centration of serotonin or 1 µ M Sildena ontrol cells are treated in the same way e anged to fresh medium, and cells are incu th 150 µ L of 10% DMSO for 20 minutes. ng a microplate reader at 570 nm[2].	oriate medium before use[2]. Cells at 6 ethylene diamine tetraacetic acid 1.ls/well and grown in RPMI-1640 ree days. Cells are then incubated for fil followed by serotonin with or except sterile PBS replaced the drug. ubated with 5 g/L of MTT for four The optical densities (OD) in the 96-
描述	Sildenafil, a cyclic guanosine monophosphate (cGMP)-specific phosphodiesterase type 5 (PDE5) Inhibitor, is used extensively for erectile dysfunction and less commonly for pulmonary hypertension.		
储存	Powder: -20°C for 3 years   In so	olvent: -80°C for 2 years	