

Catalog Number: CM00041

产品信息	Catalog Number: CM00041	分子量: 248.71
	CAS号: 49843-98-3	溶解度: DMSO:18.7 mg/mL(75
	分子式: C ₁₃ H ₁₃ ClN ₂ O	mM),Ethanol:12.4 mg/mL (50 mM)
	主要 <mark>靶点:</mark> Sirtuin	H ₂ N H
	主要通路: DNA损伤和修复┃表观遗传	Ŭ
靶点活性	SIRT 1:38 nM(cell free)	
体外活性	damage in primary human mammary epith had no effect on cell growth, viability, or p of SIRT 1 is inhibited by EX527 or its expres by high glucose are further increased [2]. W	cally increased acetylation at lysine 382 of p53 after different types of DNA lelial cells and several cell lines. Inhibition of SIRT1 catalytic activity by EX-527 53-controlled gene expression in cells treated with etoposide [1]. When the function sion is suppressed by RNAi, the upregulated level and release of IL-1 β and TNF- α then HCT116 cells were cultured in 0.1% serum, addition of EX-527 caused a 90% presence of 10% serum, EX-527 did not change cell number in long term culture [3].
体内活性	failed to respond to ghrelin in feeding beha	ed the ghrelin-induced food intake in rats. Mice lacking p53, a target of SIRT1 action, avior. Ghrelin failed to phosphorylate hypothalamic AMPK when rats were nice [4]. EX-527 abolished RSV-induced attenuation of microvascular inflammation
动物实验	intraperitoneally 18 hours pre-sepsis	ng/kg (4ml/kg) or equivalent volume of DMSO (Vehicle) (4ml/kg) s. This dose of RSV in mice was as per documented literature. In one received EX-527 (10 mg/kg intraperitoneally; 4ml/kg, Vehicle: DMSO) Id puncture [5].
细胞实验	well plates for the viability assay and proliferation assay. Cells were incuba exposure to DNA-damaging agents an For viability assays, cells were treated determined using the Cell Titer-Glo L number. Luminescence was measure [14C]thymidine was added to the mer Plates were counted at 48 h (HMEC) o	ells, or HMEC were plated at 2,000 cells per well in opaque-walled 96- 800 cells per well in 96-well Cytostar-T scintillating microplates for the ted for 1 day (NCI-H460) or 2 days (MCF-7, U-2 OS, and HMEC) prior to ad deacetylase inhibitors. All experiments were performed in triplicate. I with the indicated compounds for 48 h. Cell viability was then uminescent assay, which measures total ATP levels as an index of cell d on a Luminoskan Ascent. For the proliferation assay, 0.5 μ Ci/ml of dium immediately after the genotoxins and deacetylase inhibitors. r 72 h (NCI-H460, MCF-7, and U-2 OS cells) in a Microbeta liquid porated by the cells was detected by proximity to the scintillant in the plate [1].
描述	EX 527 is an effective and specific SIRT1 in	hibitor (IC50: 38 nM) and shows >200-fold selectivity against SIRT2/3.
储存	Powder: -20°C for 3 years In solvent:	-80°C for 2 years