For Research Use Only BI-D1870



Catalog Number: CM06360

产品信息	Catalog Number: CM06360 CAS号: 501427-28-1	分子量: 391.42 溶解度:	
	分子式: C ₁₉ H ₂₃ F ₂ N ₅ O ₂)MSO:72 mg/mL (183.9 mM),H2O: <1 mg/mL,Ethanol:<1 mg/mL	F CH ₃
	主要靶点: Autophagy S6 Kinase 主要通路: MAPK信号通路 PI3K/Akt/mTOR信 号通路 自噬		H _a C CH _a
靶点活性	RSK3:18 nM (cell free) RSK4:15 nM (cell free) RSK1:31 nM (cell free) RSK2:24 nM (cell fr	ee)
体外活性	BI-D1870 is cell permeant and prevents the phosphorylation of GSK-3 β and LKB1 in HEH triggered phosphorylation of substrates for : EGF-induced phosphorylation of CREB (cAM affect the phosphorylation of p7056K, and rg activation after 90 min of incubation. In LN- displaying a peak at 90 min [2]. BI-D1870 ev sparing of normal human oral keratinocytes In addition, BI-D1870 also induced G2/M arr newly discovered anticancer attributes of BI endoplasmic reticulum stress and autophag	RSK-mediated phorbol ester- and EGF (epic (293 cells and Rat-2 cells. In contrast, BI-D: six other AGC kinases. Moreover, BI-D1870 P-response-element-binding protein) [1]. Ir S6 was scarcely reduced. However, 10 μ M 18 cells, BI-D1870 at 10 μ M stimulated the chibited a dose-responsive antiproliferativ the compound inhibited the downstream est by modulating the expression of p21 ar -D1870 included the generation of reactive y [3].	dermal growth factor)-induced 1870 does not affect the agonist- does not suppress the phorbol ester- or n LN-229 cells, 1 µ M BI-D1870 did not 1BI-D1870 strongly induced p7056K, e phosphorylation of rpS6 and p7056K, re effect on OSCC cells with relative RSK target YB-1 and caused apoptosis. nd other cell cycle regulators. Other e oxygen species and increases in
体内活性	BI-D1870 (0.5 mg/kg) administration protec the infiltration of TH1 and TH17 cells into th	ted mice from experimental autoimmune (le CNS and decreasing mRNA levels of Ccré	encephalomyelitis (EAE) by reducing 5 in TH17 cells [4].
动物实验	Myelin oligodendrocyte glycoprotein induce EAE in C57/BL6J mice. Mice wer 100 L complete Freund's adjuvant (CF/ tuberculosis (H37Ra). In addition, 500 inhibitor (BI-D1870; 0.5 mg kg?1) was and injection was repeated every othe solution were used as controls. Paraly one, tail limpness; two, hind limb wea quadriplegia; six, death. For histologic sliced at 4 m, and then hematoxylin &	(MOG) peptide 35–55. (MEVGWYRSPFS re injecteds.c. with 200 g of MOG pep A) that was further supplemented wit ng pertussis toxin was injected i.p. or injected i.p. into mice two days after re day for 11 days. Mice that received sis was evaluated according to the fo kness; three, hind limb paralysis; fou ral analysis, CNS samples were fixed w eosin (H & E) staining was performed	SRVVHLYRNGK) (BEX) was used to tide in 100 L of PBS emulsified in th five mg mL?1 Mycobacterium n days zero and two. The RSK immunization with MOG peptide, only dimethyl sulfoxide (DMSO) sullowing scale: zero, no disease; r, forelimb weakness; five, vith 4% paraformaldehyde and [4].
细胞实验	The rat embryo fibroblast cell line, Rat Modified Eagle's medium supplement dishes in Dulbecco's Modified Eagle's solution. Prior to stimulation, cells we in DMSO at a 1000-fold higher concen volume of DMSO as a control, were add indicated otherwise. The final concen agonist-induced activation or phosph with the indicated agonists and lysed min. The supernatants were frozen in were determined using the Bradford of	2-2 cells were cultured on 10 cm-dian eed with 10% (v/v) FBS. HEK-293 cells medium supplemented with 10% FB re cultured in the absence of serum tration than they were used at. These ded to the tissue culture medium 30 tration of DMSO in the culture mediu orylation of any of the substrates exa in 1 ml of ice-cold Lysis Buffer and ce liquid nitrogen and stored at ?80 °C u method with BSA as the standard [1].	neter dishes in Dulbecco's were cultured on 10 cm-diameter S and 1×antimycotic/antibiotic for 16 h. Inhibitors were dissolved inhibitors, or the equivalent min prior to stimulation unless m was 0.1% and had no effect on imined. The cells were stimulated entrifuged at 16000 g at 4 °C for 5 until use. Protein concentrations
描述	BI-D1870 is a cell-permeable, ATP-competit RSK1/2/3/4).	tive inhibitor of ribosomal S6 kinases (RSK	s; IC50s: 31/24/18/15 nM for
储存	Powder: -20°C for 3 years In solvent:	-80°C for 2 years	