For Research Use Only Adezmapimod



Catalog Number: CM05675

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产品信息	Catalog Number: CM05675 CAS号: 152121-47-6 分子式: C ₂₁ H ₁₆ FN ₃ OS 主要靶点: p38 MAPK[Mitophagy]Autophagy 主要通路: MAPK信号通路 自噬	分子量: 377.43 溶解度: 1eq.HCl:37.7 mg/mL(100 mM),DMSO:9.4 mg/mL(25 mM)	CH3 NH
靶点活性	р38 МАРК:0.3-0.5 µ М (THP-1 cells) РКВ:3-5	5 μ M (THP-1 cells)	
体外活性	The concentrations of SB203580 required to than those required to inhibit p38 MAP kina the activation of MAPKAP kinase-2 and pre 1 [2]. Pretreatment with the p38 MAPK spec MKK3 or MKK6 did not affect OA-enhanced I inhibited NF-kappaB-mediated promoter a	b block PKB phosphorylation (IC 50: 3-5 μ M) ase (IC 50: 0.3-0.5 μ M) [1]. SB 203580 inhib vents the phosphorylation of heat shock pr ific inhibitor SB203580 (1 μ M) or overexp NF-kappaB transcriptional potency. 5 and 1 ctivity by 2 fold [3].	1) are only approximately 10-fold higher oits RK in vitro (IC50: 0.6 μ M), suppresses rotein (HSP) 27 in response to interleukin- ression of kinase-deficient mutants of 10 μ M SB203580 enhanced rather than
体内活性	SB203580 improved renal function by decri changes of kidney and reducing Ig and C(3) leucocytes in liver and spleen were found t dose SB203580 (100 mg/kg) pretreatment i from being harmful to having no significan pretreatment decreased cardiac phosphory not alter lung neutrophils significantly but at 24 hours but then increased them at 48 h	easing the levels of proteinuria and serum) depositions in the kidney. Hepatocytes ne to be inhibited by administration of SB203; increased the hazards ratio of death. Decre It effect. At 48 hours, but not 24 hours after lated p38 MAPK levels and improved cardi increased lung injury at 48 hours. High dos yours [5].	BUN, ameliorating the pathologic ecrosis, recruitment and proliferation of 580 [4]. Compared with placebo, high asing doses (10, 1, or 0.1 mg/kg) went E. coli, high and low dose SB203580 iac output either. Low dose SB203580 did se decreased lung neutrophils and injury
动物实验	In survival studies, C57BL/6J mice we challenged with 0.05 mL of IT normal previously described. One hour befor (100 mg/kg or placebo 1 hour before IT coli (n = 121); or SB203580 100 mg/kg ceftriaxone (100 mg/kg in 0.1 mL, sub beginning 4 hours after challenge. Ar hours from 48 hours to 72 hours, eve completion (168 hours). Sequential w doses of SB203580 versus placebo ac placebo at differing treatment times. – 8 per group) [5].	ighing 20 g to 30 g were briefly anes saline (NS, noninfected controls) or E re NS challenge, mice (n = 24) receive y (placebo). Infected animals receive f E. coli (n = 241); SB203580 100 or 0.1 g or placebo 12 hours after E. coli (n = ocutaneously) for 4 days and NS (0.5 m nimals were observed every 2 hours f ry 8 hours from 72 hours to 96 hours reekly experiments with 24 animals e dministered at similar times or simila . Study groups in each experiment we	sthetized with isoflurane and E. coli (15 × 10^9 CFU/kg) as ed either intraperitoneal SB203580 d SB203580 in doses of 100, 10, 1, or 1 mg/kg or placebo 1 hour after E. e 72). All animals received nl, subcutaneously) for 1 day for the initial 48 hours, every 4 , and then twice daily until study each compared either two to three ar doses of SB203580 versus ere of equivalent sample size (i.e., 6
细胞实验	The luciferase reporter plasmid plL6l TF-1 cell line by means of electropora 0.5×10^{6} cells/ml in the appropriate 10×10^{6} in 200? μ l. When transfecte left at room temperature for 15?min. plL6luc(-122) together with 15? μ go MKK6(K82A), pRSV-N \triangle Raf1, pcDNA3-I Cotransfections of pGAL4tkluc (5? μ g under similar conditions. In addition, for transfection efficiency. Electropor 960? μ F with Gene Pulser electropor containing 2% FBS. Six hours after tra or SB203580 for 30?min prior to OA s available luciferase lysis buffer. One- reagents and luciferase activity was r 100? μ l lysis product plus 100? μ l CA kit [3].	suc(-122) and the CAT reporter plasmi medium, washed twice and resusper ed with a single plasmid, 25? μ g of DN . Cotransfections were performed wi f the dominant-negative expression MKK4(Ala), pcDNA3-Flag-JNK1, or pcD g) with either pGAL4p65 (5? μ g) or pC cells were cotransfected with 2? μ g ration, in 0.4?cm electroporation cuv ator. After electroporation, the cells ansfection cells were stimulated for timulation. The cells were then harve hundred μ l of lysis product was add neasured with the Anthos Lucy1 lum .T dilution buffer was determined with	id p(TRE)5CAT were transfected into e cultured for 16?h at a density of NA was added and the mixture was ith 15? µ g of the reporter plasmid plasmids (pRSV-MKK3(Ala), pcDNA3- NA3 (empty vector). GAL4dbd (5? µ g) were performed of a CMV-CAT plasmid, to normalize vettes, was performed at 240?V and were replated in RPMI 1640 24?h with medium or OA (30?ng/ml) ested and lysed by commercially ed to 100? µ l of luciferase assay inometer. CAT reporter activity of th a commercially available CAT Elisa
描述	Adezmapimod (PB 203580) is a p38 MAPK i and GSK-3 β .	nhibitor (IC50: 0.3-0.5 μ M). It shows more	than 100-fold selectivity over PKB, LCK,
储存	Powder: -20°C for 3 years In solvent:	-80°C for 2 years	
For technical support and original valic	lation data for this product please contac	t This pro	oduct is exclusively available under

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