For Research Use Only VPS34 inhibitor 1 (Compound 19, PIK-III analogue)



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Catalog Number: CM14279

产品信息	Catalog Number: CM14279	分子量: 391.47	N N
	CAS号: 1383716-46-8	溶解度: DMSO:78 mg/mL (199.25 mM)	HN
	分子式: C ₂₁ H ₂₅ N ₇ O		
	主要靶点: PI3K		
	主要通路: PI3K/Akt/mTOR信号通路		H ₃ C
			нас ОН
靶点活性	Vps34:15 nM		
			.
体外活性	VPS34 inhibitor 1 (Compound 19, PIK-III and of compound 19 to prevent the degradation In addition, treatment of cells with compou previous reports using PIK-III.	of autophagy substrates p62, NCOA4, NBR	1, NDP52, and FTH1 is similar to PIK-III.
体内活性	The pharmacokinetic profile of analogue 19 compound is rapidly absorbed and showed blood flow), with good oral bioavailability constitutes a suitable candidate for in vivo for 7 days, LC3-II accumulates consistent wi in vivo.	moderate mean systemic clearance (30 ml (F% = 47).?Based on these PK parameters a studies.?Upon oral administration of comp	L/min/kg, approximately 33% of hepatic and the cellular activity, compound 19 bound 19 at 50 mg/kg twice a day (BID)
动物实验	Animal Models: C57BL/6 Mice. Formula Administration: oral administration o		kg(p.o.) or 2 mg/kg(l.V.)
细胞实验	Cell lines: U2OS cells.Concentrations: are plated and the following day wher vehicle) or the indicated concentratio cells are lysed in RIPA supplemented passage through a Qiashredder colum	n cells had reached 90%, are treated n of PIK-III or Compound 19, both dis with 1% SDS and mini-EDTA protease	with dimethyl sulfoxide (DMSO, soolved in DMSO. 24 hours later, e inhibitors, homogenized by
描述	VPS34 inhibitor 1 (Compound 19, PIK-III and	alogue) is a potent and selective inhibitor	of VPS34(IC50 : 15 nM)
储存	Powder: -20°C for 3 years In solvent:	-80°C for 2 years	