PCC0208017

Cat. No.:	HY-139604		
CAS No.:	2623158-64	-3	
Molecular Formula:	$C_{19}H_{20}F_{3}N_{7}$		
Molecular Weight:	403.4		
Target:	Apoptosis		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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MedChemExpress

SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4789 mL	12.3946 mL	24.7893 mL
	5 mM	0.4958 mL	2.4789 mL	4.9579 mL
	10 mM	0.2479 mL	1.2395 mL	2.4789 mL

BIOLOGICAL ACTIV		
Description	PCC0208017 is a microt PCC0208017 has much PCC0208017 suppresses G2/M phase cell cycle an good BBB permeability	ubule affinity regulating kinases (MARK3/MARK4) inhibitor with IC ₅₀ s of 1.8 and 2.01 nM, respectively. lower inhibitory activity against MARK1 and MARK2, with IC ₅₀ s of 31.4 and 33.7 nM, respectively. s glioma progression in vitro and in vivo. PCC0208017 disrupts microtubule dynamics and induces rrest and cell apoptosis. PCC0208017 demonstrates robust antitumor activity in vivo and displays ^[1] .
In Vitro	PCC0208017 inhibits the PCC0208017 (1-5 μM; 24 PCC0208017 (3-21 μM; 2 MCE has not independe Cell Proliferation Assay	e activity of MARK3 and MARK4 and decreased the phosphorylation of Tau ^[1] . 4 hours) treatment results in decreased phosphorylation of Tau, the subtract of MARKs ^[1] . 24 hours) suppresses the proliferation of glioma cells ^[1] . ently confirmed the accuracy of these methods. They are for reference only. [1]
	Cell Line:	The glioma cell lines GL261, U87-MG, U251
	Concentration:	0, 3, 6, 9, 12, 15, 18, 21 μM

Product Data Sheet

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	Incubation Time:	24 hours
	Result:	The IC $_{50}$ values for GL261, U87-MG and U251 were calculated as 2.77, 4.02 and 4.45 $\mu\text{M},$ respectively.
	Cell Proliferation Assay ^{[:}	1]
	Cell Line:	
	Concentration:	Glioma cell lines GL261 and U251 1, 2, 5 μM
	Incubation Time:	24 hours
	Result:	Decreased the phosphorylation of Tau.
	DCC0209017 domonstra	too robust antitumer activity in vivo and displays good PPP normaphility. DCC0202017 (50 and
In Vivo	PCC0208017 demonstra 100 mg/kg; orally admin manner. Inhibition rates significantly enhances th from 34.15% (TMZ only)	tes robust antitumor activity in vivo and displays good BBB permeability. PCC0208017 (50 and histrated) inhibits the growth of xenograft tumors derived from GL261 cells in a dose-dependent s are 56.15% and 70.32%, respectively. Co-treatment of PCC0208017 at dosage of 50 mg/kg he anti-tumor activity of Temozolomide (TMZ; 100 mg/kg), with an increase in tumor inhibition rate: to 83.5% (TMZ+PCC0208017) ^[1] .
In Vivo	PCC0208017 demonstra 100 mg/kg; orally admin manner. Inhibition rates significantly enhances th from 34.15% (TMZ only) PCC0208017 (after a sing a single oral dose of 50 r 0.833 h ^[1] .	tes robust antitumor activity in vivo and displays good BBB permeability. PCC0208017 (50 and histrated) inhibits the growth of xenograft tumors derived from GL261 cells in a dose-dependent is are 56.15% and 70.32%, respectively. Co-treatment of PCC0208017 at dosage of 50 mg/kg he anti-tumor activity of Temozolomide (TMZ; 100 mg/kg), with an increase in tumor inhibition rates to 83.5% (TMZ+PCC0208017) ^[1] . gle oral administration at a dose of 50 mg/kg) could be detected in both plasma and brain following mg/kg. In plasma, C _{max} is 1.36 μg/mL and T _{max} is 0.833 h. In brain, C _{max} is 0.14 μg/mL and T _{max} is
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REFERENCES

[1]. Fangfang Li, et al. PCC0208017, a novel small-molecule inhibitor of MARK3/MARK4, suppresses glioma progression in vitro and in vivo. Acta Pharm Sin B.2020 Feb;10(2):289-300.

Caution: Product has not been fully validated for medical applications. For research use only.

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