TC-Mps1-12

Cat. No.:	HY-110115		
CAS No.:	1206170-62-	-8	
Molecular Formula:	C ₁₇ H ₂₀ N ₆ O		
Molecular Weight:	324.38		
Target:	Mps1		
Pathway:	Cell Cycle/D	NA Dama	ge; Cytoskeleton
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

®

MedChemExpress

Product Data Sheet

ŅΗ

N

N

H₂N

NH₂

Description	TC-Mps1-12 is a potent and s	selective monopolar spindle 1 (Mps1) inhibitor, with an IC ₅₀ of 6.4 nM ^[1] .
IC ₅₀ & Target	IC50: 6.4 nM (Mps1) ^[1]	
In Vitro	TC-Mps1-12 inhibits the grov TC-Mps1-12 (72 hours) inhib MCE has not independently Cell Viability Assay ^[1]	wth of pMps1 cell lines with IC50 values of 131 nM in autophosphorylation assay ^[1] . its the growth of cells in a dose-dependent manner and with an IC ₅₀ values of 0.84 μ M ^[1] . confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	549 cells
	Concentration:	
	Incubation Time:	72 hours
	Result:	Inhibited the growth of cells in a dose-dependent manner and with an IC_{50} values of 0.84 μ M.
In Vivo	TC-Mps1-12 (25-100 mg/kg; dose of 100 mg/kg, TC-Mps1 TC-Mps1-12 shows good PK MCE has not independently	p.o.; daily; for 19 days) inhibits the growth of A549 cells in a dose-dependent manner in vivo. At a -12 exhibits 47% tumor growth inhibition without body weight loss ^[1] . properties with a Cmax of 3542 ng/mL and AUC of 6604 ng h/mL at an oral dose of 25 mg/kg ^[1] . confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	A549 mouse xenograft model ^[1]
	Dosage:	25 mg/kg, 50 mg/kg, 100 mg/kg
	Administration:	Oral administration; once daily; for 19 days
	Result:	Inhibited the growth of A549 cells in a dose-dependent manner.



Animal Model:	A549 mouse xenograft model (pharmacokinetic) ^[1]
Dosage:	25 mg/kg
Administration:	Oral administration
Result:	C _{max} = 3542 ng/mL, AUC = 6604 ng h/mL

REFERENCES

[1]. Kusakabe K, et al. Diaminopyridine-based potent and selective mps1 kinase inhibitors binding to an unusual flipped-Peptide conformation. ACS Med Chem Lett. 2012 Jun 6;3(7):560-4.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA