CAN508

®

MedChemExpress

Cat. No.:	HY-100429	
CAS No.:	140651-18-9	
Molecular Formula:	C ₉ H ₁₀ N ₆ O	H ₂ Ņ
Molecular Weight:	218	
Target:	CDK	
Pathway:	Cell Cycle/DNA Damage	HN NH ₂
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)	

SOLVENT & SOLUBILITY

		Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.5872 mL	22.9358 mL	45.8716 mL
	Stock Solutions	5 mM	0.9174 mL	4.5872 mL	9.1743 mL
		10 mM	0.4587 mL	2.2936 mL	4.5872 mL
	Please refer to the sol	ubility information to select the app	propriate solvent.		1

BIOLOGICAL ACTIV				
Description		betitive CDK9/cyclin T1 inhibitor CDK/cyclin complexes. Antitumor		exhibits a 38-fold selectivity
IC ₅₀ & Target	CDK9/cyclinT1 0.35 μM (IC ₅₀) CDK7/cyclin H 26 μM (IC ₅₀)	CDK2/cyclinE 20 μM (IC ₅₀) Cdk1/cyclin B 44 μM (IC ₅₀)	cdk2/cyclin A 69 μΜ (IC ₅₀)	Cdk4/cyclin D1 13.5 μΜ (IC ₅₀)
In Vitro	CAN508 (20-40 μM; 72 hours) s adenocarcinoma cell lines (Sk CAN508 (40 μM; 72 hours) incr	y of S-phase cells of the cancer co significantly reduces cell prolifera (GT4, OE33 and FLO-1 cells) with reases apoptosis in all three esop ponfirmed the accuracy of these m	ation in a dose dependent manne IC ₅₀ s ranging from 34.99 to 91.09 hageal adenocarcinoma cells ^[2] .	er in all three esophageal 9 μM ^[2] .

∠OH

Product Data Sheet

	Apoptosis Analysis ^[1]	
	Cell Line:	SKGT4, OE33 and FLO-1 cells
	Concentration:	40 μM
	Incubation Time:	72 hours
	Result:	Increased apoptosis by 2 fold in all three esophageal adenocarcinoma cells compared to untreated controls.
n Vivo		daily for 10 days) has antitumor effects in esophageal adenocarcinoma xenografts ^[1] .
In Vivo		daily for 10 days) has antitumor effects in esophageal adenocarcinoma xenografts ^[1] .
In Vivo	MCE has not independe	daily for 10 days) has antitumor effects in esophageal adenocarcinoma xenografts ^[1] .
n Vivo	MCE has not independe Animal Model:	daily for 10 days) has antitumor effects in esophageal adenocarcinoma xenografts ^[1] . Ently confirmed the accuracy of these methods. They are for reference only. 4 weeks-old female nude mice (esophageal adenocarcinoma xenografts) ^[1]

REFERENCES

[1]. Krystof V, et al. 4-arylazo-3,5-diamino-1H-pyrazole CDK inhibitors: SAR study, crystal structure in complex with CDK2, selectivity, and cellular effects. J Med Chem. 2006;49(22):6500-6509.

[2]. Tong Z, et al. Antitumor effects of cyclin dependent kinase 9 inhibition in esophageal adenocarcinoma. Oncotarget. 2017;8(17):28696-28710.

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