PD173952

®

MedChemExpress

Cat. No.:	HY-122113				
CAS No.:	305820-75-1				
Molecular Formula:	C ₂₄ H ₂₁ Cl ₂ N ₅ O ₂				
Molecular Weight:	482.36				
Target:	Src; Bcr-Abl; Apoptosis; Wee1				
Pathway:	Protein Tyrosine Kinase/RTK; Apoptosis; Cell Cycle/DNA Damage				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

Product Data Sheet

BIOLOGICAL ACTIV	ІТҮ				
Description	PD173952 is a tyrosine kinases also a potent Myt1 kinase inhi	s inhibitor with IC ₅₀ s of 0.3, 1.7 an bitor with a K _i of 8.1 nM. PD17395	d 6.6 nM against Lyn, Abl and Cs 2 induces apoptosis ^{[1][2]} .	k, respectively. PD173952 is	
IC ₅₀ & Target	Lyn 0.3 nM (IC ₅₀)	Abl 1.7 nM (IC ₅₀)	Csk 6.6 nM (IC ₅₀)	Myt1 8.1 nM (Ki)	
In Vitro	PD173952 (0-1000 nM; 12 h) inhibits tyrosine phosphorylation of p210 ^{Bcr-Abl} and CrkL in K562 cells in a concentration- dependent manner ^[1] . PD173952 (0.5 μM; 1-4 days) inhibits K562 cell viability ^[1] . PD173952 (0.5 μM; 24 and 48 h) induces apoptosis of K562 and MEG-01 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]				
	Cell Line: K562 cells				
	Concentration:	0, 25, 50, 100, 200, 500 and 1000	nM		
	Incubation Time:	12 h			
	Result:	Inhibited tyrosine phosphorylat	ion of p210 ^{Bcr-Abl} and CrkL.		
	Cell Viability Assay ^[1]				
Cell Line: K562 cells					
	Concentration:	0.5 μΜ			
	Incubation Time:	1-4 days			
	Result:	Caused cell death in a time-dep	endent manner.		
	Western Blot Analysis ^[1]				
	Cell Line:	K562 and MEG-01 cells			

Concentration:	0.5 μΜ
Incubation Time:	24 and 48 h
Result:	85-kDa PARP fragment was detected.

REFERENCES

[1]. Dorsey JF, et al. Interleukin-3 protects Bcr-Abl-transformed hematopoietic progenitor cells from apoptosis induced by Bcr-Abl tyrosine kinase inhibitors. Leukemia. 2002 Sep;16(9):1589-95.

[2]. Wichapong K, et al. Application of docking and QM/MM-GBSA rescoring to screen for novel Myt1 kinase inhibitors. J Chem Inf Model. 2014 Mar 24;54(3):881-93.

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

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