Multi-kinase-IN-1

MedChemExpress

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Cat. No.:	HY-146014	
CAS No.:	2470807-67-9	
Molecular Formula:	$C_{35}H_{36}F_{2}N_{6}O_{6}S$	
Molecular Weight:	706.76	
Target:	Apoptosis; c-Met/HGFR; PDGFR; Src; TAM Receptor	
Pathway:	Apoptosis; Protein Tyrosine Kinase/RTK	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIV					
Description	Multi-kinase-IN-1 (Compound 11k) is a potent kinase inhibitor with antitumor activity. Multi-kinase-IN-1 induces cell apoptosis, and can be studied for colorectal cancer ^[1] .				
IC₅₀ & Target	Ron 0.122 μΜ (IC ₅₀) AXL 0.632 μΜ (IC ₅₀)	c-Met 0.382 μΜ (IC ₅₀)	PDGFRα 0.384 μΜ (IC ₅₀)	c-Src 0.421 μM (IC ₅₀)	
In Vitro	Multi-kinase-IN-1 (Compound 11k) (0-5 μg/mL, 0-72 h) induces antiproliferation and cytotoxicity in a dose- and time- dependent manner in HT-29 cells, and is much less toxic to normal colorectal mucosa epithelial cells ^[1] . Multi-kinase-IN-1 (0-3 μg/mL, 0-72 h) induces cell apoptosis in a time- and dose-dependent manner ^[1] . Multi-kinase-IN-1 (0-3 μg/mL, 48 h) slightly induces cell cycle arrest in G2/M phase ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]				
	Cell Line:	HT-29 (human colon cancer cell) and FHC (normal colorectal mucosa epithelial cells)			
	Concentration:	0.56, 1.67, and 5 μg/mL for HT-29, 10 μg/mL for FHC			
	Incubation Time:	0-72 h			
	Result:	Led to significant cytotoxicity in a dose- and time-dependent manner in HT-29 cells. Showed low toxicity in FHC cells.			
	Apoptosis Analysis ^[1]				
	Cell Line:	HT-29			
	Concentration:	0.3, 1, and 3 μg/mL			

Induced cell apoptosis in a time- and dose-dependent manner.

0-72 h

Incubation Time:

Result:

Cell Cycle Analysis ^[1]	
Cell Line:	HT-29
Concentration:	0.3, 1, and 3 μg/mL
Incubation Time:	48 h
Result:	Slightly induced cell cycle arrest with a G2/M percentage of 4.4% at 3.0 mg/mL compared to 0.1% DMSO (2.4%).

REFERENCES

[1]. Yuting Zhou, et al. Identification of novel quinoline analogues bearing thiazolidinones as potent kinase inhibitors for the treatment of colorectal cancer. Eur J Med Chem. 2020 Oct 15;204:112643.

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

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