EGFR kinase inhibitor 1

Cat. No.:	HY-143246	/ N
CAS No.:	2413958-04-8	
Molecular Formula:	$C_{30}H_{31}N_{7}O_{2}$	N
Molecular Weight:	521.61	NH Q
Target:	EGFR; Apoptosis	O N
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Apoptosis	S H N-
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIV	ТУ			
Description	EGFR kinase inhibitor 1 is a po respectively. EGFR kinase inhi		37, 1.7, >300 nM for WT, l885R/T790M, L858R/T790M/C797S, l cycle arrest at G0/G1-phase. EGFR kinase inhibitor 1 inhibits e and anti-tumor activity ^[1] .	
IC ₅₀ & Target	EGFR (WT) 37 nM (IC ₅₀)	EGFR ^{L858R/T790M} 1.7 nM (IC ₅₀)	EGFR ^{L858R/T790M/C797S} >300 nM (IC ₅₀)	
In Vitro	cells, respectively ^[1] . EGFR kinase inhibitor 1 (0.05, EGFR kinase inhibitor 1 (4, 20, EGFR kinase inhibitor 1 (0.5 µ)	0.5, 5 μM; 48 h) induces apoptosis 100 nM; 48 h) induces cell cycle a 4; 0, 24, 48 h) inhibits the motility		
	Cell Line:	A549, H1975 cells		
	Concentration:			
	Incubation Time:	72 h		
	Result:	Showed antiproliferation activity respectively.	ty with IC $_{50}$ s of 4.17, 0.052 μM for A549, H1975 cells,	
	Apoptosis Analysis ^[1]			
	Cell Line:	H1975 cells		
	Concentration:	0.05, 0.5, 5 μM		
	Incubation Time:	48 h		
	Result:	Induced apoptosis in a dose-de	pendent manner.	
	Apoptosis Analysis ^[1]			

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Cell Line:	H1975 cells
Concentration:	4, 20, 100 nM
Incubation Time:	48 h
Result:	Induced cell cycle arrest at G0/G1-phase with the percentage of G0/G1-phase cells increased from 42.93% to 60.52% at 4 nM, 70.39% at 20 nM and 80.03% at 100 nM.

REFERENCES

[1]. Ding S, et al. Design, synthesis and biological evaluation of novel N-(3-amino-4-methoxyphenyl)acrylamide derivatives as selective EGFRL858R/T790M kinase inhibitors. Bioorg Chem. 2022 Jan;118:105471.

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

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