## 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 <sup>[1]</sup> .	
IC <sub>50</sub> & Target	EGFR (WT) 37 nM (IC <sub>50</sub> )	EGFR <sup>L858R/T790M</sup> 1.7 nM (IC <sub>50</sub> )	EGFR <sup>L858R/T790M/C797S</sup> >300 nM (IC <sub>50</sub> )	
In Vitro	cells, respectively <sup>[1]</sup> . 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 $\mu\text{M}$ for A549, H1975 cells,	
	Apoptosis Analysis <sup>[1]</sup>			
	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 <sup>[1]</sup>			

Inhibitors • Screening Libraries • Proteins

## Product Data Sheet



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.

 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