EGFR-IN-50

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-146210 2044508-48-5 $C_{24}H_{26}BrN_3O_4S_2$ 564.51 EGFR JAK/STAT Signaling; Protein Tyrosine Kinase/RTK Please store the product under the recommended conditions in the Certificate of	HN HN Br Br S-S-SON Br
	Analysis.	

	ТУ		
Description	EGFR-IN-50 (Compound 9h) is a potent EGFR inhibitor against L858R resistance mutation (TEL-EGFR-L858R-BaF3: GI ₅₀ =8 nM, TEL-EGFR-T790M-L858R-BaF3: GI ₅₀ =6.03 μM). EGFR-IN-50 shows anti-proliferative activity to cancer cells ^[1] .		
In Vitro	EGFR-IN-50 (0-10 μM; 72 h) selectively inhibits NSCLC cell line H3255 (expressing EGFR-L858R) compared to other tunco [1]. EGFR-IN-50 (1-10 μM; 72 h) induces cell cycle arrest in G0-G1 phase ^[1] . EGFR-IN-50 (0.039-10 μM; 4 h) inhibits the phosphorylation of EGFR in H3255 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]		
	Cell Line:	A549, H3255, HepG2, MCF-7, HT-29 and A431 cells	
	Concentration:	0-10 μΜ	
	Incubation Time:	72 hours	
	Result:	Showed GI ₅₀ values of >10, and 0.7873 μ M for A549 and H3255 cells, respectively. Showed IC ₅₀ values of >10, 7.309, >10 and 6.703 μ M for HepG2, MCF-7, HT-29 and A431 cells, respectively.	
	Cell Cycle Analysis ^[1]		
	Cell Line:	H3255 cells	
	Concentration:	1, 5, and 10 μM	
	Incubation Time:	72 hours	
	Result:	Increased the percentage of H3255 cells in G0-G1 phase from 60.32% to 88.61%.	
	Western Blot Analysis ^[1]		
	Cell Line:	H3255 cells	
	Concentration:	0.039, 0.15, 0.62, 2.5, and 10 μM	



Incubation Time:	4 hours
Result:	Inhibited the phosphorylation of EGFR in H3255 cells in a dose-dependent manner.

REFERENCES

[1]. You-Guang Zheng, et al. Design, synthesis and biological evaluation of 4-aniline quinazoline derivatives conjugated with hydrogen sulfide (H2S) donors as potent EGFR inhibitors against L858R resistance mutation. Eur J Med Chem. 2020 Sep 15;202:112522.

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

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