EGFR/HER2/TS-IN-1

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-146238 2444363-11-3 C ₂₄ H ₁₅ N ₅ O ₄ S ₂ 501.54 EGFR; Thymidylate Synthase; Apoptosis JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Apoptosis Please store the product under the recommended conditions in the Certificate of Analysis.	
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BIOLOGICAL ACTIVITY					
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Description	EGFR/HER2/TS-IN-1 (Compound 4d) is an EGFR, HER2 and TS (Thymidylate synthase) inhibitor with IC ₅₀ values of 0.203, 0.088 and 0.168 μM against EGFR, HER2 and TS, respectively. EGFR/HER2/TS-IN-1 induces MCF7 cell apoptosis ^[1] .				
IC₅₀ & Target	HER2 0.088 μΜ (IC ₅₀)	Thymidylate synthase 0.168 μΜ (IC ₅₀)	EGFR 0.203 μM (IC ₅₀)		
In Vitro	EGFR/HER2/TS-IN-1 (10 µg, 2	n IC ₅₀ of 0.693 μM against MCF7 cells ^[1] . se and induces cell apoptosis in MCF7 cells ^[1] . nethods. They are for reference only.			
	Cell Line:	MCF7			
	Concentration:	10 µg			
	Incubation Time:	24 h			
	Result:	Arrested cell cycle at G2/M phase.			
	Apoptosis Analysis ^[1]				
	Cell Line:	MCF7			
	Concentration:	10 µg			
	Incubation Time:	24 h			
	Result:	Induced cell apoptosis.			

REFERENCES

[1]. Abdellatif KRA, et al. Design, synthesis, molecular docking and antiproliferative activity of some novel benzothiazole derivatives targeting EGFR/HER2 and TS. Bioorg Chem. 2020 Aug;101:103976.

Product Data Sheet



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

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