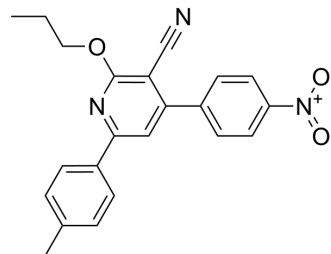


EGFR/HER2/DHFR-IN-3

Cat. No.:	HY-149633
Molecular Formula:	C ₂₂ H ₁₉ N ₃ O ₃
Molecular Weight:	373.4
Target:	EGFR; Dihydrofolate reductase (DHFR); Apoptosis
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	EGFR/HER2/DHFR-IN-3 (compound 4c) is a potent dual inhibitor of EGFR/HER2, with IC ₅₀ s of 0.138 and 0.092 μM, respectively. EGFR/HER2/DHFR-IN-3 also inhibits DHFR, with an IC ₅₀ of 0.193 μM. EGFR/HER2/DHFR-IN-3 causes arrest at the S phase of the cell cycle and induces apoptosis in MCF7 breast cancer cells ^[1] .		
IC₅₀ & Target	EGFR 0.138 μM (IC ₅₀)	HER2 0.092 μM (IC ₅₀)	DHFR 0.193 μM (IC ₅₀)

REFERENCES

[1]. Hawas SS, et, al. New 2-alkoxycyanopyridine derivatives as inhibitors of EGFR, HER2, and DHFR: Synthesis, anticancer evaluation, and molecular modeling studies. Bioorg Chem. 2023 Sep 21:141:106874.

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

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