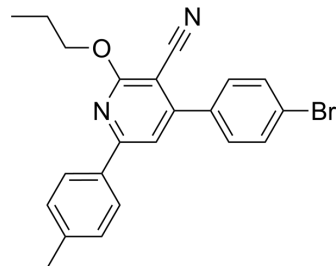


EGFR/HER2/DHFR-IN-2

Cat. No.:	HY-149632
Molecular Formula:	C ₂₂ H ₁₉ BrN ₂ O
Molecular Weight:	407.3
Target:	EGFR; Dihydrofolate reductase (DHFR)
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	EGFR/HER2/DHFR-IN-2 (Compound 4b) is an inhibitor of EGFR, HER2, and DHFR (IC ₅₀ : 0.248, 0.156, 0.138 μM respectively). EGFR/HER2/DHFR-IN-2 has anticancer activities against a panel of cancer cells (IC ₅₀ : 9.14, 7.33, 14.18, 24.87, 20.07, 6.16 μM for Hep G2, HeLa, HEp-2, HCT 116, PC-3, MCF7 cells). EGFR/HER2/DHFR-IN-2 reduce breast cancer tumor growth ^[1] .
IC ₅₀ & Target	0.248, 0.156, 0.138 μM (EGFR, HER2, DHFR) ^[1] .

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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