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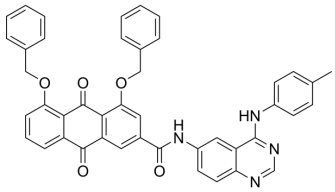
GLUT1/EGFR-IN-1

Cat. No.:	HY-163726
CAS No.:	2393787-80-7
Molecular Formula:	$C_{44}H_{32}N_4O_5$
Molecular Weight:	696.75
Target:	GLUT; EGFR; Apoptosis
Pathway:	Membrane Transporter/Ion Channel; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

GLUT1/EGFR-IN-1 (compound H) is a potent inhibitor of GLUT1 and EGFR. GLUT1/EGFR-IN-1 can simultaneously act on the EGFR tyrosine kinase ATP-binding site and inhibit GLUT1-mediated energy metabolism, resulting in reductions in ATP, MMP, intra-cellular lactic acid, and EGFR nuclear transfer. GLUT1/EGFR-IN-1 can be used for nasopharyngeal carcinoma (NPC) and triple-negative breast cancer (TNBC) research[1].

IC_{50} & Target	GLUT1	EGFR

In Vitro

GLUT1/EGFR-IN-1 (compound H) showed outstanding antitumour activity in CNE1 and MDA-MB231 cells, with IC_{50} values lower than 3 μmol/L, but activity was not obvious in CNE2 cells[1].
GLUT1/EGFR-IN-1 (0-4 μM, 48 h) inhibits the expression of EGFR and p-EGFR in both CNE1 and MDA-MB231 cells[1].
GLUT1/EGFR-IN-1 (0-4 μM, 48 h) induces apoptosis in CNE1 and MDA-MB231 cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	CNE1 and MDA-MB231 cells
Concentration:	1 μmol/L, 2, 4 μmol/L
Incubation Time:	48 h
Result:	Depressed the expression of EGFR-, p-EGFR- and GLUT1-mediated glycolysis-related proteins.

In Vivo

GLUT1/EGFR-IN-1 (compound H) (4-8 mg/kg, IP, for two weeks) inhibits the growth of the MDA-MB231-transplanted tumour cells in a nude mice model[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	BALB/c-neu female mice (Four- to five-week-old, n=5)[1]
Dosage:	4, 8 mg/kg
Administration:	IP, for two weeks

Result:	Inhibited the growth of the MDA-MB231 transplanted tumour model in nude mice.

REFERENCES

[1]. Wang C, et al. Targeted blocking of EGFR and GLUT1 by compound H reveals a new strategy for treatment of triple-negative breast cancer and nasopharyngeal carcinoma. Eur J Pharm Sci. 2024 Jul 1;198:106789.

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