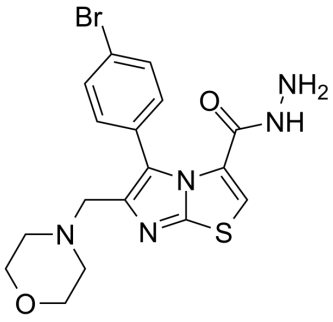
HER2-IN-12

Cat. No.:	HY-151162
CAS No.:	2820126-51-8
Molecular Formula:	$C_{17}H_{18}BrN_5O_2S$
Molecular Weight:	436.33
Target:	EGFR
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HER2-IN-12 is a HER2 inhibitor (IC_{50}: 121 nM). HER2-IN-12 can be used in the research of cancers, such as breast cancer[1].
IC_{50} & Target	HER2 121 nM (IC_{50})
In Vitro	HER2-IN-12 (Compound 44, 72 h) exhibits broad cytotoxicity against series of cancer cells (HepG2, MCF-7, HCT116, PC3, HeLa)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay[1]

Cell Line:	HepG2, MCF-7, HCT116, PC3, HeLa
Concentration:	0-100 μM approximately
Incubation Time:	72 h
Result:	Inhibited cancer cell viability with IC_{50} values ranging from 3.65 μM (HeLa) to 21.89 μM (PC3).

REFERENCES

[1]. Mohamed A Sabry, et al. New thiazole-based derivatives as EGFR/HER2 and DHFR inhibitors: Synthesis, molecular modeling simulations and anticancer activity. Eur J Med Chem. 2022 Aug 10;241:114661.

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