

EGFR/HER2-IN-8

Chemical Properties

CAS No. :

Formula: C16H16N4O2S

Molecular Weight: 328.39

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

| | |
|---------------|--|
| Description | EGFR/HER2-IN-8 (compound 34) is an inhibitor of EGFR, HER2, and DHFR with IC50 values of 0.45 μ M, 0.244 μ M, and 5.669 μ M, respectively. It demonstrates anticancer activity against several cancer cell lines, exhibiting a high safety profile and selectivity indices, making it useful for cancer research [1]. |
| Targets(IC50) | EGFR,Others |
| In vitro | EGFR/HER2-IN-8, at concentrations ranging from 0 to 100 μ M over 72 hours, demonstrates significant anticancer efficacy against HepG2, MCF 7, HCT-116, PC-3, and Hela cancer cell lines, while showing preferential cytotoxicity towards these cancer cells over normal WI-38 fetal lung fibroblast cells. The compound's cytotoxic effectiveness was quantified by IC50 values of 7.34 μ M for HepG2, 5.19 μ M for MCF 7, 9.23 μ M for HCT-116, 18.5 μ M for PC-3, and 13.02 μ M for Hela cell lines, indicating robust anti-cancer activity. Conversely, it exhibited minimal cytotoxicity against the WI-38 cell line, with an IC50 value of 67.25 μ M, highlighting its selectivity, particularly towards the MCF-7 breast cancer cell line. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.0452 mL | 15.2258 mL | 30.4516 mL |
| 5 mM | 0.609 mL | 3.0452 mL | 6.0903 mL |
| 10 mM | 0.3045 mL | 1.5226 mL | 3.0452 mL |
| 50 mM | 0.0609 mL | 0.3045 mL | 0.609 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481