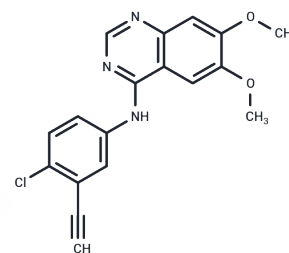


UNC-CA359

Chemical Properties

CAS No. : 2676156-05-9
 Formula: C₁₈H₁₄ClN₃O₂
 Molecular Weight: 339.78
 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 | UNC-CA359 is a highly potent inhibitor of the epidermal growth factor receptor (EGFR), demonstrating an IC ₅₀ value of 18 nM. With strong anti-tumor activity, UNC-CA359 holds significant potential for chordoma research [1]. |
| Targets(IC ₅₀) | EGFR,Others |
| In vitro | UNC-CA359, also referred to as compound 45, demonstrates varying levels of activity across different targets: it is ineffective against U-CH1, partially effective on U-CH2, and strongly inhibits EGFR with IC ₅₀ values of >100 μM, 35 μM, and 18 nM, respectively. When tested in chordoma cell lines for 72 hours at concentrations ranging from 1 nM to 0.1 mM, UNC-CA359 exhibits IC ₅₀ values of 1.2 μM in CH22 and 3.0 μM in U-CH12 cells. Furthermore, it targets three collateral kinases, showing notable potency towards SLK/STK10 with a selectivity ratio over NAK of 22. The binding constants (K _i) for GAK, SLK, and STK10 are 3.4 nM, 0.33 μM, and 0.075 μM, respectively. In a cytotoxicity assay involving various chordoma cell lines and WS1 cells, it showed promising activity against the chordoma cells with IC ₅₀ values of 1.2 μM (CH22), 3.0 μM (U-CH12), 60 μM (UM-Chor1), and 74 μM (U-CH7), while exhibiting no toxicity toward WS1 cells (IC ₅₀ >100 μM). |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.9431 mL | 14.7154 mL | 29.4308 mL |
| 5 mM | 0.5886 mL | 2.9431 mL | 5.8862 mL |
| 10 mM | 0.2943 mL | 1.4715 mL | 2.9431 mL |
| 50 mM | 0.0589 mL | 0.2943 mL | 0.5886 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

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