

Anticancer agent 108

Chemical Properties

CAS No. :

Formula: C₁₈H₉NO₅S₂

Molecular Weight: 383.4

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 | Anticancer Agent 108 (Compound 3.10) serves as a potent P-gp inhibitor exhibiting considerable antitumor properties while maintaining reduced toxicity to both normal and pseudonormal cells; it also demonstrated no acute toxic effects on C57BL/6 mice [1]. |
| Targets(IC50) | Others,P-gp |
| In vitro | Anticancer agent 108 (10 µM; 48 h) significantly inhibited the proliferation of cancer cells [1]. At concentrations of 50, 100, 250, and 500 nM over 72 h, it also suppressed the proliferation of KB-3-1 cells [1]. Moreover, Anticancer agent 108 instigated apoptosis in cells via endoplasmic reticulum (ER) stress at doses of 0.5, 2.5, and 5 µM after 3 and 24 h [1]. Additionally, it induced apoptosis in MDA-MB-231 cells at concentrations of 5 and 10 µM after 24 h [1]. |
| In vivo | Anticancer agent 108 (administered as a single dose, intraperitoneal injection at 20 mg/kg) does not induce weight loss, rapid demise, leukopenia, anemia, or a reduction in hemoglobin levels in mice. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.6082 mL | 13.0412 mL | 26.0824 mL |
| 5 mM | 0.5216 mL | 2.6082 mL | 5.2165 mL |
| 10 mM | 0.2608 mL | 1.3041 mL | 2.6082 mL |
| 50 mM | 0.0522 mL | 0.2608 mL | 0.5216 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

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