

1,4-Anthraquinone

Chemical Properties

CAS No. : 635-12-1

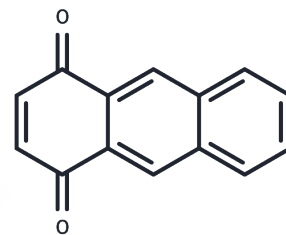
Formula: C₁₄H₈O₂

Molecular Weight: 208.21

Keep away from moisture

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 | 1,4-Anthraquinone is an anticancer drug that blocks nucleoside transport, inhibits macromolecule synthesis, induces DNA fragmentation, and decreases the growth and viability of L1210 leukemic cells in the same nanomolar range as daunorubicin in vitro. 1,4-Anthraquinone is proposed as a novel pre-column reagent for high performance liquid chromatography (HPLC) determination of N-acetylcysteine (NAC) and captopril (CAP) in pharmaceutical formulations. |
| Targets(IC50) | Others,DNA/RNA Synthesis |
| In vitro | 1,4-anthraquinone (AQ)?was the most active and selective molecule on the tested tumor cells |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 6.88 mg/mL (33.04 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.8028 mL | 24.0142 mL | 48.0284 mL |
| 5 mM | 0.9606 mL | 4.8028 mL | 9.6057 mL |
| 10 mM | 0.4803 mL | 2.4014 mL | 4.8028 mL |
| 50 mM | 0.0961 mL | 0.4803 mL | 0.9606 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.

Reference

Roa-Linares V , Miranda-Brand Y , V Tangarife-Castaño, et al. Anti-Herpetic, Anti-Dengue and Antineoplastic Activities of Simple and Heterocycle-Fused Derivatives of Terpenyl-1,4-Naphthoquinone and 1,4-Anthraquinone[J]. Molecules, 2019, 24(7).

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