

DC-BPi-11 hydrochloride

Chemical Properties

CAS No. :

Formula: C₂₀H₂₄ClN₅O₂S

Molecular Weight: 433.95

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 | DC-BPi-11 hydrochloride is a BPTF (bromodomain PHD finger transcription factor) inhibitor with an IC ₅₀ value of 698 nM, demonstrating significant anti-proliferative effects on leukemia cells [1]. |
| Targets(IC ₅₀) | Epigenetic Reader Domain |
| In vitro | DC-BPi-11 hydrochloride at concentrations ranging from 0.1 nM to 1 μM over 24 hours inhibits BPTF in human leukemia MV-4-11 cells with an EC ₅₀ of 120 nM [1]. The same compound significantly suppresses the proliferation of these leukemia cells at 0.01 μM to 100 μM (IC ₅₀ = 0.89 μM) and reduces the expression of downstream oncogenes at concentrations between 2.5 and 20 μM over a 24-hour period [1]. Additionally, DC-BPi-11 hydrochloride dose-dependently decreases c-Myc protein levels at 0.6 to 50 μM after 24 hours [1]. This compound is deemed safe with minimal effects on normal cells [1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.3044 mL | 11.5221 mL | 23.0441 mL |
| 5 mM | 0.4609 mL | 2.3044 mL | 4.6088 mL |
| 10 mM | 0.2304 mL | 1.1522 mL | 2.3044 mL |
| 50 mM | 0.0461 mL | 0.2304 mL | 0.4609 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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