

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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