

CCT367766 formic

Chemical Properties

CAS No. :

Formula: C₅₀H₅₀ClN₇O₁₃

Molecular Weight: 992.42

Keep away from direct sunlight

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	CCT367766 formic is a potent third-generation heterobifunctional Cereblon-based protein degradation probe (PDP, or PROTAC) that selectively targets pirin for degradation, effectively diminishing its protein expression at low concentrations. This compound demonstrates moderate affinity towards the CRBN-DDB1 complex, as denoted by an IC ₅₀ value of 490 nM, while exhibiting strong binding to recombinant pirin and CRBN, with respective K _d values of 55 nM and 120 nM. As such, CCT367766 formic serves as a valuable chemical probe for investigating the functions of the largely unexplored pirin protein [1].
Targets(IC ₅₀)	PROTACs
In vitro	CCT367766 formic at concentrations ranging from 50 to 1500 nM over 24 hours exhibits time-dependent diminishment of pirin protein levels, echoing a hook effect in SK-OV-3 human ovarian cancer cells [1]. At lower doses (0.5-50 nM for 2 hours), CCT367766 formic causes a concentration-dependent reduction of pirin protein in these cells [1]. Furthermore, the same dosage range over a 2-hour period can counteract the suppression effect of chlorobisamide pretreatment on pirin protein levels in SK-OV-3 cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0076 mL	5.0382 mL	10.0764 mL
5 mM	0.2015 mL	1.0076 mL	2.0153 mL
10 mM	0.1008 mL	0.5038 mL	1.0076 mL
50 mM	0.0202 mL	0.1008 mL	0.2015 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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