

CAM 833

Chemical Properties

CAS No. : 2758364-02-0

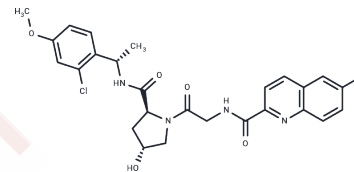
Formula: C₂₆H₂₆ClFN₄O₅

Molecular Weight: 528.96

Store at low temperature

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	CAM 833 is an effective orthosteric inhibitor of the BRCA2-RAD51 interaction, inhibiting RAD51 aggregation, enhancing DNA damage-induced apoptosis, increasing 4N cell cycle arrest, and disrupting homologous DNA repair (HDR), and can be used for cancer therapy.
Targets(IC50)	Apoptosis, Cell Cycle Arrest, DNA/RNA Synthesis
In vitro	Methods: HCT116 cells were treated with CAM 833 (20 μM, 0-72 hours) to study its effect on the cell cycle of HCT116 cells. Results: In the control group, the percentage of cells in the G1 fraction of apoptosis remained below 5%. In the compound-treated cells, the percentage of cells in the G1 fraction gradually increased, reaching a peak of 15% at 48 hours. [1]

Solubility Information

Solubility	DMSO: 105 mg/mL (198.5 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8905 mL	9.4525 mL	18.905 mL
5 mM	0.3781 mL	1.8905 mL	3.781 mL
10 mM	0.1891 mL	0.9453 mL	1.8905 mL
50 mM	0.0378 mL	0.1891 mL	0.3781 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

Scott et al (2021) A small-molecule inhibitor of the BRCA2-RAD51 interaction modulates RAD51 assembly and potentiates DNA damage-induced cell death. Cell Chem.Biol. 28 835

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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