

CP-31398

Chemical Properties

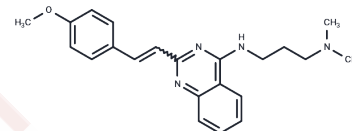
CAS No. : 259199-65-0

Formula: C₂₂H₂₆N₄O

Molecular Weight: 362.47

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	CP-31398 stabilizes the active conformation of p53 in cancer cells with either mutated or wild-type p53, enhancing its activity. Additionally, CP-31398 upregulates target genes of p53 such as p21WAF1/Cip1 and KILLER/DR5. This compound possesses tumor-suppressive properties.
Targets(IC50)	Apoptosis,MDM-2/p53
In vitro	CP-31398, at a concentration of 36.75 μ M for 16 hours, induces the expression of p21 in cells with mutated p53. Additionally, CP-31398 administered at 15 μ g/mL for 20 hours, promotes apoptosis and arrests the cell cycle in SW480 cells.
In vivo	In a xenograft mouse model, CP-31398 (100 mg/kg, orally administered, twice daily for a duration of 7 days) demonstrated significant antitumor activity.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7588 mL	13.7942 mL	27.5885 mL
5 mM	0.5518 mL	2.7588 mL	5.5177 mL
10 mM	0.2759 mL	1.3794 mL	2.7588 mL
50 mM	0.0552 mL	0.2759 mL	0.5518 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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