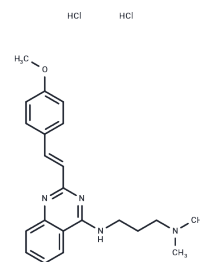


CP-31398 dihydrochloride

Chemical Properties

CAS No. : 1217195-61-3
 Formula: C₂₂H₂₈Cl₂N₄O
 Molecular Weight: 435.4
 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 dihydrochloride is a p53 stabilizer which stabilizes the active conformation of p53 and promotes p53 activity in cancer cell lines with mutant or wild-type p53.
Targets(IC50)	Mdm2,p53,MDM-2/p53
In vitro	CP-31398 (15 µg/mL, 20 hours) could induce apoptosis and cell cycle arrest in SW480 cells[1]. CP-31398 (36.75 µM, 16 h) induces p21 in p53-mutant cells[2].

Solubility Information

Solubility	DMSO: 6 mg/mL (13.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.3 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2967 mL	11.4837 mL	22.9674 mL
5 mM	0.4593 mL	2.2967 mL	4.5935 mL
10 mM	0.2297 mL	1.1484 mL	2.2967 mL
50 mM	0.0459 mL	0.2297 mL	0.4593 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

Rishu Takimoto, et al. The Mutant p53-Conformation Modifying Drug, CP-31398, Can Induce Apoptosis of Human Cancer Cells and Can Stabilize Wild-Type p53 Protein. *Cancer Biol Ther.* Jan-Feb 2002;1(1):47-55.

B A Foster, et al. Pharmacological rescue of mutant p53 conformation and function. *Science.* 1999 Dec 24;286(5449):2507-10.

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