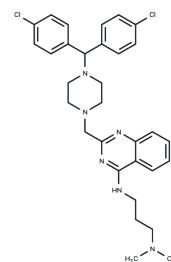


SCH529074

## Chemical Properties

CAS No. : 922150-11-6  
 Formula: C<sub>31</sub>H<sub>36</sub>Cl<sub>2</sub>N<sub>6</sub>  
 Molecular Weight: 563.56  
 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	SCH529074 is a selective activator of p53 (K <sub>i</sub> = 1 μM) and can be used in studies about non-small-cell lung carcinoma. SCH529074 restores mutant p53 function and interrupts HDM2-mediated ubiquitination of wild Type p53.
Targets(IC50)	p53,MDM-2/p53
In vitro	SCH529074 (2-4 μM) reduces cell viability and decreases to 20-25% in p53 mutant cells including H157, H1975, and H322, and to 68% in the p53 WT cell line A549 at 4 μM. SCH 529074 (2-4 μM) induces NSCLC cells including H157, A549, HCT116, and HCT116 p53-/- arrested at the G0/G1 phase (59%; 72%; 66%; and 57%)[2].
In vivo	In female nude mice, 5-7 weeks of age, received subcutaneous inoculation of DLD-1 human colorectal carcinoma cells, SCH529074 (orally; 30 and 50 mg/kg) reduces 79 and 43% of tumor growth with the plasma exposure of 0.26-0.55 μm at 30 mg/kg and 0.39-0.79 μm at 50 mg/kg[1].

## Solubility Information

Solubility	Ethanol: 33 mg/mL (58.56 mM),Sonication is recommended. DMF: 33 mg/mL (58.56 mM),Sonication is recommended. DMSO: 22.5 mg/mL (39.92 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 (1.77 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

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	1mg	5mg	10mg
1 mM	1.7744 mL	8.8722 mL	17.7443 mL
5 mM	0.3549 mL	1.7744 mL	3.5489 mL
10 mM	0.1774 mL	0.8872 mL	1.7744 mL
50 mM	0.0355 mL	0.1774 mL	0.3549 mL

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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

Demma, M., Maxwell, E., Ramos, R., et al. SCH529074, a small molecule activator of mutant p53, which binds p53 DNA binding domain (DBD), restores growth-suppressive function to mutant p53 and interrupts HDM2-mediated ubiquitination of wild type p53. *J. Biol. Chem.* 285(14), 10198-10212 (2010).

Miljana Nenkov, et al. Growth Inhibitory Role of the p53 Activator SCH 529074 in non-small Cell Lung Cancer Cells Expressing Mutant p53. *Oncol Rep.* 2020 Jun;43(6):2073-2082.

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