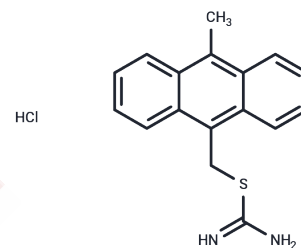


NSC 146109 hydrochloride

Chemical Properties

CAS No. :	59474-01-0
Formula:	C ₁₇ H ₁₇ ClN ₂ S
Molecular Weight:	316.85
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	NSC 146109 hydrochloride is an activator of p53 targeting MDMX. NSC 146109 hydrochloride can be used for studies on breast cancer.
Targets(IC50)	Apoptosis,MDM-2/p53
In vitro	NSC 146109 hydrochloride promotes breast cancer cells to undergo apoptosis through activating p53 and inducing the expression of proapoptotic genes[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (252.49 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (10.42 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	3.1561 mL	15.7803 mL	31.5607 mL
5 mM	0.6312 mL	3.1561 mL	6.3121 mL
10 mM	0.3156 mL	1.578 mL	3.1561 mL
50 mM	0.0631 mL	0.3156 mL	0.6312 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

Wang H, et al. A small-molecule p53 activator induces apoptosis through inhibiting MDMX expression in breast cancer cells. *Neoplasia*. 2011 Jul;13(7):611-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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