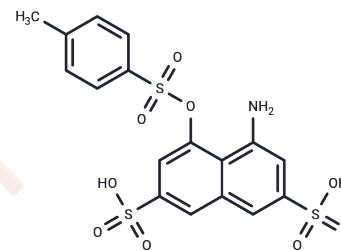


NSC16168

Chemical Properties

CAS No. : 6837-93-0
 Formula: C17H15NO9S3
 Molecular Weight: 473.5
 Storage: Keep away from moisture
 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	NSC16168 is a selective ERCC1-XPF inhibitor that inhibits DNA repair and potentiates the antitumor activity of cisplatin.
Targets(IC50)	Others,DNA,DNA/RNA Synthesis
In vitro	NSC16168 is a specific inhibitor of ERCC1-XPF with an IC50 of 0.42 μM. NSC16168 potentiates the antitumor effect of cisplatin on cancer cells in the concentration range of 0-50 μM. [1]
In vivo	In the H460 lung cancer xenograft model, NSC16168 was injected intraperitoneally twice a day at a dose of 20 mg/kg and showed significant antitumor effects and synergistically enhanced the efficacy of cisplatin. [1]

Solubility Information

Solubility	DMSO: 20 mg/mL (42.24 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: 2 mg/mL (4.22 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	2.1119 mL	10.5597 mL	21.1193 mL
5 mM	0.4224 mL	2.1119 mL	4.2239 mL
10 mM	0.2112 mL	1.056 mL	2.1119 mL
50 mM	0.0422 mL	0.2112 mL	0.4224 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

Arora S, et al. Identification of small molecule inhibitors of ERCC1-XPF that inhibit DNA repair and potentiate cisplatin efficacy in cancer cells. *Oncotarget*. 2016 Nov 15;7(46):75104-75117.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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