

NSC 48160

## Chemical Properties

CAS No. : 6640-90-0

Formula: C<sub>18</sub>H<sub>29</sub>NO

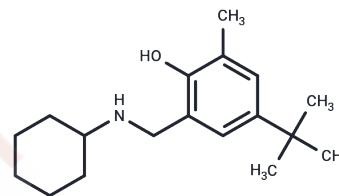
Molecular Weight: 275.43

Keep away from direct sunlight, Keep away from moisture

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 48160 is a small molecule compound with anti-pancreatic cancer activity that inhibits the growth of pancreatic cancer cells, induces apoptosis of pancreatic cancer cells through the mitochondrial pathway and inhibits metastasis of two types of pancreatic cancer cells in vitro, and can freeze the intermediate of Ras-GTP hydrolysis in the open non-signaling conformation with high affinity and high specificity in silico.
Targets(IC50)	Apoptosis, Mitochondrial Metabolism

## Solubility Information

Solubility	DMSO: 80 mg/mL (290.45 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: 3.3 mg/mL (11.98 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	3.6307 mL	18.1534 mL	36.3069 mL
5 mM	0.7261 mL	3.6307 mL	7.2614 mL
10 mM	0.3631 mL	1.8153 mL	3.6307 mL
50 mM	0.0726 mL	0.3631 mL	0.7261 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

Liu zuijia, et al. Application of small molecule compound NSC48160 in preparation of medicine for treating non-alcoholic fatty liver disease. Patent. CN115869292

Li D, et al. A small-molecule induces apoptosis and suppresses metastasis in pancreatic cancer cells. Eur J Pharm Sci. 2013 Mar 12;48(4-5):658-67.

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