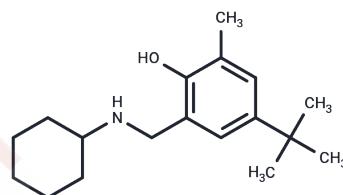


NSC 48160

## Chemical Properties

CAS No. :	6640-90-0
Formula:	C18H29NO
Molecular Weight:	275.43
Appearance:	Solid
Storage:	keep away from direct sunlight, keep away from moisture store at 4°C



## 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	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (11.98 mM), Sonication is recommended. DMSO: 80 mg/mL (290.45 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	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

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.

## 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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Tel:781-999-4286 E\_email:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481