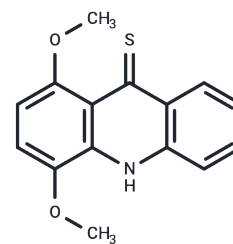


NSC 625987

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 141992-47-4  |
| Formula:          | C <sub>15</sub> H <sub>13</sub> NO <sub>2</sub> S  |
| Molecular Weight: | 271.33   |
| Storage:          | Keep away from direct sunlight<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><i>Actual storage temperature shall be subject to the COA.</i> |



## Biological Description

|                            |   |
|----------------------------|---|
| Description                | NSC 625987 is a selective, high-affinity CDK4 inhibitor with an IC <sub>50</sub> of 0.2 μM for CDK4: cyclin D1. Its selectivity for CDK4 is >500-fold greater than for CDK2, making it suitable for studying p16-associated tumors. |
| Targets(IC <sub>50</sub> ) | CDK   |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | Ethanol: <1 mg/mL,<br>DMSO: 80 mg/mL (294.84 mM), Sonication is recommended.<br>(< 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 (3.69 mM), Sonication is recommended.<br><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  | 3.6855 mL | 18.4277 mL | 36.8555 mL |
| 5 mM  | 0.7371 mL | 3.6855 mL  | 7.3711 mL  |
| 10 mM | 0.3686 mL | 1.8428 mL  | 3.6855 mL  |
| 50 mM | 0.0737 mL | 0.3686 mL  | 0.7371 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

Kubo A, et al. The p16 status of tumor cell lines identifies small molecule inhibitors specific for cyclin-dependent kinase 4. Clin Cancer Res. 1999;5(12):4279-4286.

El Andalouji J, et al.;. Natriuretic peptide receptor-C agonist attenuates the expression of cell cycle proteins and proliferation of vascular smooth muscle cells from spontaneously hypertensive rats: role of Gi proteins and MAPkinase/PI3kinase signaling. PLoS One. 2013;8(10):e76183. Published 2013 Oct 14.

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