

## Diallyl disulfide

## Chemical Properties

CAS No. : 2179-57-9

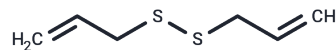
Formula: C<sub>6</sub>H<sub>10</sub>S<sub>2</sub>

Molecular Weight: 146.27

Store at low temperature

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	Diallyl disulfide has antitumor effect, the effect can be enhanced by miR-200b and miR-22.
Targets(IC50)	NOS,NF-κB,IL Receptor

## Solubility Information

Solubility	DMSO: 7.31 mg/mL (49.98 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: 1 mg/mL (6.84 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	6.8367 mL	34.1834 mL	68.3667 mL
5 mM	1.3673 mL	6.8367 mL	13.6733 mL
10 mM	0.6837 mL	3.4183 mL	6.8367 mL
50 mM	0.1367 mL	0.6837 mL	1.3673 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

Diallyl-disulfide, an organosulfur compound of garlic, attenuates airway inflammation via activation of the Nrf-2/HO-1 pathway and NF-kappaB suppression. Food Chem Toxicol. 2013 Dec;62:506-13.

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