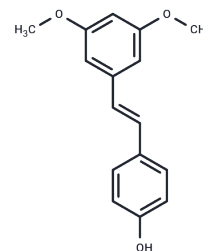


## Pterostilbene

## Chemical Properties

CAS No. :	537-42-8
Formula:	C <sub>16</sub> H <sub>16</sub> O <sub>3</sub>
Molecular Weight:	256.30
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	Pterostilbene is extracted from Pterocarpus indicus.
Targets(IC50)	Autophagy

## Solubility Information

Solubility	DMSO: 200 mg/mL (780.34 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	5% DMSO+40% PEG300+5% Tween 80+50% Saline: 9.00 mg/mL (35.12 mM), Suspension. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.30 mg/mL (12.88 mM), Sonication is recommended. 50% PEG300+50% Saline: 10.00 mg/mL (39.02 mM) <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	3.9017 mL	19.5084 mL	39.0168 mL
5 mM	0.7803 mL	3.9017 mL	7.8034 mL
10 mM	0.3902 mL	1.9508 mL	3.9017 mL
50 mM	0.078 mL	0.3902 mL	0.7803 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

Lin HC, et al. J Food Sci. 2015 Oct;80(10):H2331-5.

Wang R, Xu Z, Tian J, et al. Pterostilbene inhibits hepatocellular carcinoma proliferation and HBV replication by targeting ribonucleotide reductase M2 protein. American Journal of Cancer Research. 2021, 11(6): 2975.

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