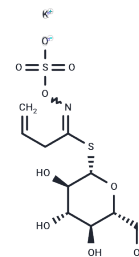


## Sinigrin

## Chemical Properties

CAS No. :	3952-98-5
Formula:	C <sub>10</sub> H <sub>16</sub> KNO <sub>9</sub> S <sub>2</sub>
Molecular Weight:	397.45
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	Sinigrin is the major thioglucoside in Cruciferae with anti-adipogenic properties. It was used as reference material in the isolation and characterization procedure of mustard oleoresins. Sinigrin has potent antioxidant, antitumor, and anti-inflammatory effects.
Targets(IC50)	Apoptosis, Antioxidant, Akt, Antibacterial, CDK, AMPK, Antifungal, Interleukin, mTOR, p38 MAPK, PI3K, PPAR, ROS

## Solubility Information

Solubility	H <sub>2</sub> O: Slightly Soluble, DMSO: 150 mg/mL (377.41 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (25.16 mM), Solution. <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	2.516 mL	12.5802 mL	25.1604 mL
5 mM	0.5032 mL	2.516 mL	5.0321 mL
10 mM	0.2516 mL	1.258 mL	2.516 mL
50 mM	0.0503 mL	0.2516 mL	0.5032 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.

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