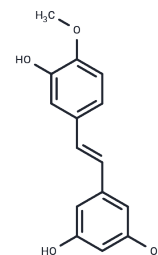


## Rhapontigenin

## Chemical Properties

CAS No. :	500-65-2
Formula:	C <sub>15</sub> H <sub>14</sub> O <sub>4</sub>
Molecular Weight:	258.27
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Rhapontigenin (Protigenin) is a mechanism-based, selective inactivator of cytochrome P450 1A1 (IC <sub>50</sub> : 400 nM), an aryl hydrocarbon hydroxylase which activates polycyclic aromatic hydrocarbons that act as procarcinogens. Rhapontigenin is a natural analog of resveratrol with antioxidant and anti-cancer activity. At higher concentrations, rhapontigenin inhibits the proliferation of HL-60R and HepG2 cancer cell lines (IC <sub>50</sub> : 48 μM).
Targets(IC <sub>50</sub> )	Antibacterial,Antifungal,Cytochromes P450

## Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 131.25 mg/mL (508.19 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: 2 mg/mL (7.74 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	3.8719 mL	19.3596 mL	38.7192 mL
5 mM	0.7744 mL	3.8719 mL	7.7438 mL
10 mM	0.3872 mL	1.936 mL	3.8719 mL
50 mM	0.0774 mL	0.3872 mL	0.7744 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

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