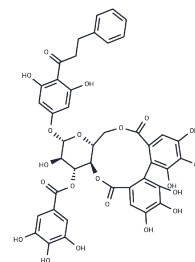


Thonningianin A

Chemical Properties

CAS No. :	271579-11-4
Formula:	C42H34O21
Molecular Weight:	874.71
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	1. Thonningianin A has anti-cancer activities. 2. Thonningianin A represents a new potent glutathione S-transferase in vitro inhibitor. 3. Thonningianin A has antioxidant property, involves radical scavenging, anti-superoxide formation and metal chelation.
Targets(IC50)	Apoptosis

Solubility Information

Solubility	DMSO: 50 mg/mL (57.16 mM), Sonication is recommended. Ethanol: Soluble, Pyridine, Methanol, etc.: Soluble, (< 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 (2.29 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	1.1432 mL	5.7162 mL	11.4324 mL
5 mM	0.2286 mL	1.1432 mL	2.2865 mL
10 mM	0.1143 mL	0.5716 mL	1.1432 mL
50 mM	0.0229 mL	0.1143 mL	0.2286 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

Zhang T T , Yang L , Jiang J G . Effects of thonningianin A in natural foods on apoptosis and cell cycle arrest of HepG-2 human hepatocellular carcinoma cells[J]. Food Funct. 2015, 6(8):2588-2597.

Jiang Z, Piao L, Ren C, et al. Identifying Natural Products as Feline Coronavirus Mpro Inhibitors by Structural-Based Virtual Screening and Enzyme-Based Assays. ACS Omega. 2025

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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