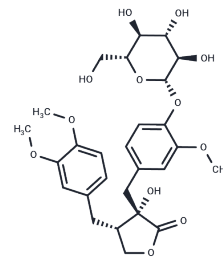


Tracheloside

Chemical Properties

CAS No. :	33464-71-0
Formula:	C ₂₇ H ₃₄ O ₁₂
Molecular Weight:	550.55
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	Tracheloside significantly decreases the activity of alkaline phosphatase (IC ₅₀ : 0.31 µg/ml), a level of inhibition comparable to that of tamoxifen (IC ₅₀ : 0.43 µg/ml).
Targets(IC ₅₀)	Estrogen Receptor/ERR, Phosphorylase

Solubility Information

Solubility	DMSO: 250 mg/mL (454.09 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 25 mg/mL (45.41 mM), Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.63 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	1.8164 mL	9.0818 mL	18.1637 mL
5 mM	0.3633 mL	1.8164 mL	3.6327 mL
10 mM	0.1816 mL	0.9082 mL	1.8164 mL
50 mM	0.0363 mL	0.1816 mL	0.3633 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

Kitamura Y, et al. Lack of significant inhibitory effects of a plant lignan tracheloside on 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP)-induced mammary carcinogenesis in female Sprague-Dawley rats. *Cancer Lett.* 2003 Oct 28;200(2):133-9.

Yoo HH1, et al. An anti-estrogenic lignan glycoside, tracheloside, from seeds of *Carthamus tinctorius*. *Biosci Biotechnol Biochem.* 2006 Nov;70(11):2783-5.

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