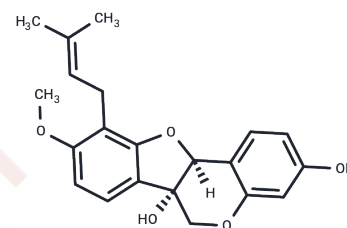


Cristacarpin

Chemical Properties

CAS No. :	74515-47-2
Formula:	C ₂₁ H ₂₂ O ₅
Molecular Weight:	354.4
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Cristacarpin is a natural product with antibacterial and anticancer activity that promotes endoplasmic reticulum stress and ROS production.
Targets(IC50)	Antibacterial,ROS
In vitro	Methods AND Results: Bioactivity-directed fractionation of the CHCl ₃ extract of the bark of <i>Erythrina burana</i> afforded phaseollidin [1] and Cristacarpin [2]. Both 1 and Cristacarpin exhibited moderate but selective activity towards DNA repair-deficient yeast mutants, whereas only 1 was found to be cytotoxic. ¹³ C-nmr spectra of both compounds were assigned.
In vivo	Methods: Cristacarpin (0.1-10 μM) was used to treat three different moderately invasive cell lines, PANC-1, MCF-7 and PC3, and cell proliferation was determined by MTT. Results: The IC ₅₀ values of Cristacarpin for the three cell lines were 6.3, 6.6 and 10.23 μM. [3]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8217 mL	14.1084 mL	28.2167 mL
5 mM	0.5643 mL	2.8217 mL	5.6433 mL
10 mM	0.2822 mL	1.4108 mL	2.8217 mL
50 mM	0.0564 mL	0.2822 mL	0.5643 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

Two bioactive pterocarpanes from *Erythrina burana*. *J Nat Prod*. 1993 Oct;56(10):1831-4.

Cristacarpin promotes ER stress-mediated ROS generation leading to premature senescence by activation of p21 (waf-1). *Age (Dordr)*. 2016 Jun;38(3):62.

Chakraborty S, et al. Cristacarpin promotes ER stress-mediated ROS generation leading to premature senescence by activation of p21(waf-1). *Age (Dordr)*. 2016 Jun;38(3):62.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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