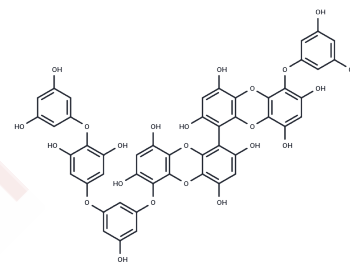


Pyrogallol-phloroglucinol-6,6-bieckol

Chemical Properties

CAS No. :	1415504-32-3
Formula:	C48H30O23
Molecular Weight:	974.74
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	Pyrogallol-phloroglucinol-6,6-bieckol (PPB) is a bioactive phlorotannin compound isolated from the brown alga Ecklonia cava that exerts potent anti-inflammatory and anti-atherogenic activities by inhibiting monocyte migration and macrophage differentiation toward inflammatory phenotypes. Pyrogallol-phloroglucinol-6,6-bieckol reduces monocyte-induced endothelial cell death and suppresses vascular smooth muscle cell proliferation and migration, contributing to vascular protection and potential therapeutic modulation of inflammatory vascular diseases.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (82.07 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: 3.3 mg/mL (3.39 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	1.0259 mL	5.1296 mL	10.2591 mL
5 mM	0.2052 mL	1.0259 mL	2.0518 mL
10 mM	0.1026 mL	0.513 mL	1.0259 mL
50 mM	0.0205 mL	0.1026 mL	0.2052 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

Lee JH, et al. Preparative isolation and purification of phlorotannins from *Ecklonia cava* using centrifugal partition chromatography by one-step. *Food Chem.* 2014 Sep 1;158:433-7.

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