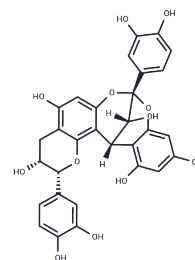


## Procyanidin A2

## Chemical Properties

CAS No. :	41743-41-3
Formula:	C30H24O12
Molecular Weight:	576.50
Storage:	Store at low temperature 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	Procyanidin A2 is a potential precursor of 5-(3',4'-dihydroxyphenyl)-γ-valerolactone, exhibits antioxidant, anti-inflammatory, anti-hyperglycemia, and anti-type 2 diabetes activities. Procyanidin A2 demonstrates liver cell regenerative activity in scratch wound healing assays and alcohol-induced liver cell injury in vitro.
Targets(IC50)	Antibacterial,IL Receptor,TNF,transporter
In vitro	Here we evaluated Procyanidin A2 as a means of modulating CCL26 production and investigated interactions with the known inflammation modulator, Interferon γ (IFNγ). We used the human lung epithelial cell line A549 and optimized the conditions for inducing CCL26. Cells were exposed to a range of Procyanidin A2 or IFNγ concentrations for varied lengths of time prior to an inflammatory insult of interleukin-4 (IL-4) for 24 h. An enzyme-linked immunosorbent assay was used to measure CCL26 production. Exposing cells to 5 μM Procyanidin A2 (prior to IL-4) reduced CCL26 production by 35% compared with control. Greatest inhibition by Procyanidin A2 was seen with a 2 h exposure prior to IL-4, whereas IFNγ inhibition was greatest at 24 h. Concomitant incubation of Procyanidin A2 and IFNγ did not extend the inhibitory efficacy of Procyanidin A2[1]

## Solubility Information

Solubility	DMSO: 100.00 mg/mL (173.46 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: 4.00 mg/mL (6.94 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

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.7346 mL	8.673 mL	17.3461 mL
5 mM	0.3469 mL	1.7346 mL	3.4692 mL
10 mM	0.1735 mL	0.8673 mL	1.7346 mL
50 mM	0.0347 mL	0.1735 mL	0.3469 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

Procyanidin A2 Modulates IL-4-Induced CCL26 Production in Human Alveolar Epithelial Cells. Int J Mol Sci. 2016 Nov 12;17(11). pii: E1888.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481