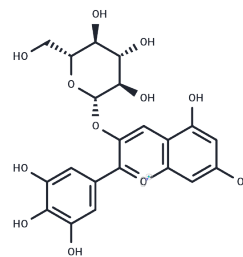


Delphinidin 3-O-glucoside

Chemical Properties

CAS No. :	50986-17-9
Formula:	C ₂₁ H ₂₁ O ₁₂
Molecular Weight:	465.38
Storage:	Keep away from moisture, Keep away from direct sunlight 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	Delphinidin 3-O-glucoside is a natural product with anti-inflammatory and antioxidant properties. It inhibits NF-κB in mesenchymal stem cells and increases the S/G2/M cell cycle, while reducing IL-1β, IL-12, TNF-α synthesis in macrophages, reduces PD-L1 protein expression in HCT-116 cells, and inhibits cell growth (IC ₅₀ = 396 ± 23 μg/mL).
Targets(IC ₅₀)	NF-κB, PD-1/PD-L1, IL Receptor, TNF

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1488 mL	10.7439 mL	21.4878 mL
5 mM	0.4298 mL	2.1488 mL	4.2976 mL
10 mM	0.2149 mL	1.0744 mL	2.1488 mL
50 mM	0.043 mL	0.2149 mL	0.4298 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

Chongwilakasem N, et al. Green extraction and partial purification of roselle (*Hibiscus sabdariffa* L.) extracts with high amounts of phytochemicals and in vitro antioxidant and antibacterial effects. *J Food Sci.* 2024 Dec;89(12): 8819-8835.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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