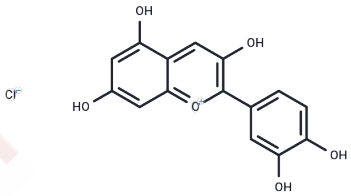
Data Sheet (Cat.No.T5528)

TargetMol

Cyanidin Chloride

Chemical Properties



CAS No. : 528-58-5

Formula: C15H11ClO6

Molecular Weight: 322.70

Storage: Keep away from direct sunlight,Keep away from moisture,Store at low temperature
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	Cyanidin Chloride, the main phenolic antioxidant in the grape (Vitis vinifera), in particular in the liposomal forms, could be used for treatment of diabetes mellitus complications.
Targets(IC50)	Antioxidant,RANKL/RANK
In vitro	Cyanidin Chloride inhibits RANKL-induced NF-κB activation, suppresses the degradation of IκB-α and attenuates the phosphorylation of extracellular signal-regulated kinases (ERK).?In addition, Cyanidin Chloride abrogated RANKL-induced calcium oscillations, the activation of nuclear factor of activated T cells calcineurin-dependent 1 (NFATc1), and the expression of c-Fos.?Further.Cyanidin Chloride protects against ovariectomy-induced bone loss in vivo.

Solubility Information

Solubility	DMSO: 22.50 mg/mL (69.72 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: 2.00 mg/mL (6.20 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0989 mL	15.4943 mL	30.9885 mL
5 mM	0.6198 mL	3.0989 mL	6.1977 mL
10 mM	0.3099 mL	1.5494 mL	3.0989 mL
50 mM	0.062 mL	0.3099 mL	0.6198 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

Cheng J, et al. Cyanidin Chloride inhibits ovariectomy-induced osteoporosis by suppressing RANKL-mediated osteoclastogenesis and associated signaling pathways. J Cell Physiol. 2018 Mar;233(3):2502-2512.