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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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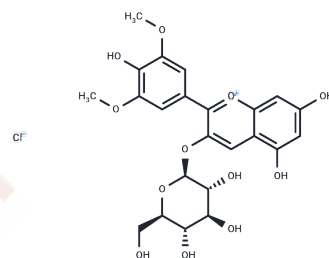
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Malvidin-3-glucoside chloride

Chemical Properties

CAS No. :	7228-78-6
Formula:	C ₂₃ H ₂₅ ClO ₁₂
Molecular Weight:	528.89
Appearance:	no data available
Storage:	store at low temperature, keep away from direct sunlight, keep away from moisture
	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Malvidin-3-glucoside chloride (Oenin chloride) has antioxidant activity, alone is not oxidized in the presence of grape polyphenol oxidase. Malvidin-3-O-glucoside chloride's color stabilization at a higher pH can be explained by self-aggregation of the flavylium cation and copigmentation with the Z-chalcone form.
Targets(IC50)	Others
In vitro	Here we used a gel electrophoresis assay employing supercoiled DNA plasmid to examine the ability of these compounds (1) to intercalate DNA, (2) to inhibit human topoisomerase I through both inhibition of plasmid relaxation activity (catalytic inhibition) and stabilization of the cleavable DNA-topoisomerase complex (poisoning), and (3) to inhibit or enhance oxidative single-strand DNA nicking. We found no evidence of DNA intercalation by anthocyan(id)ins in the physiological pH range for any of the compounds used in this study-cyanidin chloride, cyanidin 3-O-glucoside, cyanidin 3,5-O-diglucoside, Malvidin-3-O-glucoside chloride and luteolinidin chloride. The anthocyanins inhibited topoisomerase relaxation activity only at high concentrations (> 50 μM) and we could find no evidence of topoisomerase I cleavable complex stabilization by these compounds.

Solubility Information

Solubility	DMF: 20 mg/ml (28.36 mM) DMSO: 20 mg/ml (28.36 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8908 mL	9.4538 mL	18.9075 mL
5 mM	0.3782 mL	1.8908 mL	3.7815 mL
10 mM	0.1891 mL	0.9454 mL	1.8908 mL
50 mM	0.0378 mL	0.1891 mL	0.3782 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.

Reference

Webb MR, Min K, Ebeler SE. Anthocyanin Interactions with DNA: Intercalation, Topoisomerase I Inhibition and Oxidative Reactions. J Food Biochem. 2008 Sep 23;32(5):576-596.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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