

Canthaxanthin

Chemical Properties

CAS No. : 514-78-3

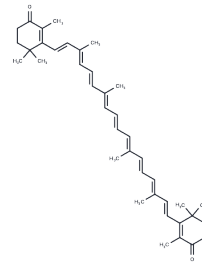
Formula: C₄₀H₅₂O₂

Molecular Weight: 564.84

Storage: Keep away from direct sunlight, Store under nitrogen

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Canthaxanthin (E 161g) is a red-orange carotenoid that belongs to the xanthophyll group. This naturally occurring pigment is present in bacteria, algae and some fungi.
Targets(IC50)	Reactive Oxygen Species, Endogenous Metabolite, ROS
In vitro	Canthaxanthin enrichment of LDL has the potential to protect cholesterol from oxidation. It possesses free radical scavenging and antioxidant properties (e.g., the induction of catalase and superoxide dismutase), along with immunomodulatory activity (e.g., enhancing the proliferation and function of immune-competent cells) and a critical role in gap junction communication (e.g., induction of the transmembrane protein connexin 43).

Solubility Information

Solubility	DMSO: 33.89 mg/mL (60 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7704 mL	8.8521 mL	17.7041 mL
5 mM	0.3541 mL	1.7704 mL	3.5408 mL
10 mM	0.177 mL	0.8852 mL	1.7704 mL
50 mM	0.0354 mL	0.177 mL	0.3541 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

Tuba, Esatbeyoglu, Gerald, et al. Canthaxanthin: From molecule to function[J]. Molecular Nutrition & Food Research, 2017.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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