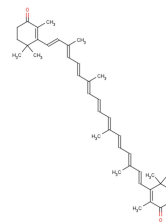


Canthaxanthin

Chemical Properties

CAS No.:	514-78-3
Formula:	C ₄₀ H ₅₂ O ₂
Molecular Weight:	564.85
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Canthaxanthin is a red-orange carotenoid that belongs to the xanthophyll group. This naturally occurring pigment is present in bacteria, algae and some fungi.
Targets(IC ₅₀)	Others: None
In vitro	Canthaxanthin enrichment of LDL has the potential to protect cholesterol from oxidation. In addition to its free radical scavenging and antioxidant properties (e.g., the induction of catalase and superoxide dismutase), canthaxanthin's immunomodulatory activity (e.g. enhancing the proliferation and function of immune competent cells) and its important role in gap junction communication (e.g. induction of the transmembrane protein connexin 43) have been reported.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.77 mL	8.852 mL	17.704 mL
5 mM	0.354 mL	1.77 mL	3.541 mL
10 mM	0.177 mL	0.885 mL	1.77 mL
50 mM	0.035 mL	0.177 mL	0.354 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481