

Astaxanthin

Chemical Properties

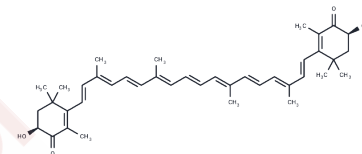
CAS No. : 472-61-7

Formula: C₄₀H₅₂O₄

Molecular Weight: 596.84

Appearance: no data available

Storage: store at low temperature, keep away from direct sunlight, store under nitrogen
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Astaxanthin (trans-Astaxanthin) is a keto-carotenoid in the terpenes class of chemical compounds. It is classified as a xanthophyll but it is a carotenoid with no vitamin A activity. It is present in most red-colored aquatic organisms. Astaxanthin has shown to mediate anti-oxidant and anti-inflammatory actions. It may be found in fish feed or some animal food as a color additive.
Targets(IC50)	Reactive Oxygen Species,PPAR

Solubility Information

Solubility	DMSO: 5.97 mg/mL (10 mM), Sonication is recommended. DMF: 1 mg/mL (1.68 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	1.6755 mL	8.3775 mL	16.7549 mL
5 mM	0.3351 mL	1.6755 mL	3.351 mL
10 mM	0.1675 mL	0.8377 mL	1.6755 mL
50 mM	0.0335 mL	0.1675 mL	0.3351 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

Zhang J, et al. J Cell Mol Med. 2015 Sep;19(9):2215-31.

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