

## Fucoxanthin

## Chemical Properties

CAS No. : 3351-86-8

Formula: C42H58O6

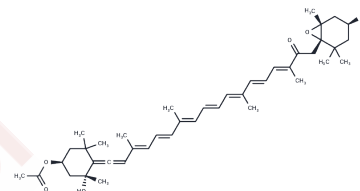
Molecular Weight: 658.91

Storage:

Keep away from direct sunlight, Keep away from moisture

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	Fucoxanthin (all-trans-Fucoxanthin) is a carotenoid naturally found in certain algae, serving as an accessory pigment in the chloroplasts of brown algae and most other heterokonts, which imparts a brown or olive-green color. It exhibits anti-obesity, antioxidant, anti-diabetic, anticancer, and anti-inflammatory activities.
Targets(IC50)	ERK,Others,Caspase,Antibacterial,NO Synthase,c-Myc,PPAR

## Solubility Information

Solubility	DMSO: 140 mg/mL (212.47 mM),Sonication is recommended. H2O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5177 mL	7.5883 mL	15.1766 mL
5 mM	0.3035 mL	1.5177 mL	3.0353 mL
10 mM	0.1518 mL	0.7588 mL	1.5177 mL
50 mM	0.0304 mL	0.1518 mL	0.3035 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

Gammone MA, et al. Anti-obesity activity of the marine carotenoid fucoxanthin. Mar Drugs. 2015 Apr 13;13(4): 2196-214.

Zhu Q, Zhou Y, Wang H, et al. Fucoxanthin triggers ferroptosis in glioblastoma cells by stabilizing the transferrin receptor. Medical Oncology. 2023, 40(8): 230.

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