

PRODUCT INFORMATION



Astaxanthin

Item No. 70685

CAS Registry No.: 472-61-7
Formal Name: 3S,3'S-dihydroxy- β,β -carotene-4,4'-dione
Synonyms: AstaREAL, AstaXin, BioAstin, Carophyll Pink, Lucantin Pink, NatuRose, Ovoester

MF: C₄₀H₅₂O₄

FW: 596.9

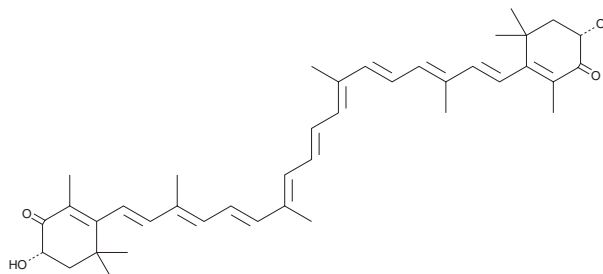
Purity: $\geq 97\%$

UV/Vis.: λ_{\max} : 473 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Astaxanthin is supplied as a crystalline solid. A stock solution may be made by dissolving the astaxanthin in the solvent of choice. Astaxanthin is soluble in organic solvents such as ethanol, chloroform, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of astaxanthin in these solvents is approximately 0.09, 6, 0.13, and 0.5 mg/ml, respectively. Astaxanthin is extremely lipophilic and crashes out of solution (of organic solvents), even at the smallest addition of water.

Description

Astaxanthin is a carotenoid pigment found primarily in marine animals including shrimp and salmon. It is a potent lipid-soluble antioxidant.¹

Reference

1. Schroeder, W.A. and Johnson, E.A. Singlet oxygen and peroxy radicals regulate carotenoid biosynthesis in *Phaffia rhodozyma*. *J. Biol. Chem.* **270**, 18374-18379 (1995).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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