

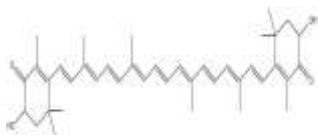
**PRODUCT: Astaxanthin**

**ALTERNATE NAME:** 3,3'-Dihydroxy- $\beta$ -carotene-4,4'-dione; all-trans-Astaxanthin; Ovoester; NSC635689; CCRIS 7118; HSDB 7468

**CATALOG #:** 9698-5,25

**AMOUNT:** 5 mg, 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>40</sub>H<sub>52</sub>O<sub>4</sub>

**MOLECULAR WEIGHT:** 596.84

**CAS NUMBER:** 472-61-7

**APPEARANCE:** Purplish brown to purplish solid

**SOLUBILITY:** DMSO

**PURITY:**  $\geq$ 95% by HPLC

**STORAGE:** Store at -20°C. Protect from air and light

**DESCRIPTION:** Astaxanthin is a potent antioxidant carotenoid and free radical scavenger. Reduces oxidative stress. Anticancer compound. Anti-inflammatory. Blocks NF- $\kappa$ B activation. Anti-hypertensive. Cardiovascular protective. Improves neuronal stem cell potential. Attenuates diabetes associated coagulatory, oxidative and inflammatory stress. PPAR $\alpha$  agonist and PPAR $\gamma$  antagonist.

**REFERENCES:** Inoue, M., *et al.* (2012). *Biochem. Pharmacol.* **84**, 692-700

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

Ascorbic Acid Assay Kit (**Cat. No. K661-100**)

Ascorbic Acid Assay Kit II (FRASC) (**Cat. No. K671-100**)

Caffeic Acid (**Cat. No. 2006-100, 500**)

Carnosic Acid (**Cat. No. 2075-5, 25**)

Catalase Assay kit (**Cat. No. K773-100**)

Deferoxamine Mesylate (**1883-500, 1000**)

(-)-Epigallocatechin gallate (**Cat. No. 1841-50**)

FeTPPS (**Cat. No. 2065-25, 100**)

Glutathione (GSH/GSSG Total) Assay Kit (**Cat. No. K264-100**)

Glutathione Colorimetric Assay Kit (**Cat. No. K261-100**)

Glutathione Fluorometric Assay Kit (**Cat. No. K251-100**)

Glutathione Peroxidase Assay Kit (**Cat. No. K762-100**)

Glutathione Reductase Assay Kit (**Cat. No. K761-100**)

GST Colorimetric Assay Kit (**Cat. No. K263-100**)

GST Fluorometric Assay Kit (**Cat. No. K263-100**)

Hydrogen Peroxide Assay Kit (**Cat. No. K265-100**)

Luteolin (**Cat. No. 2005-5, 25**)

MnTBAP Chloride (**Cat. No. 2058-10, 50**)

MnTMPyp Pentachloride (**Cat. No. 2056-10, 50**)

Nitric Oxide Colorimetric Assay Kit (**Cat. No. K263-100**)

Nitric Oxide Fluorometric Assay Kit (**Cat. No. K252-100**)

Piceatannol (**Cat. No. 2072-5, 25**)

Piperlongumine (**Cat. No. 1919-10, 50**)

Piperlonguminine (**Cat. No. 1988-10, 50**)

Pterostilbene (**Cat. No. 2073-5, 25**)

Resveratrol (**Cat. No. 1758-100, 500**)

Rhapontigenin (**Cat. No. 2074-1, 5**)

Rosmarinic Acid (**Cat. No. 1843-50, 250**)

SOD Activity Assay Kit (**Cat. No. K335-100**)

Thioredoxin Reductase Assay Kit (**Cat. No. K763-100**)

Tiliroside (**Cat. No. 1879-1,5**)

Total Antioxidant Capacity Assay Kit (**Cat. No. K274-100**)

Trolox (**Cat. No. 2076-50, 250**)

Uric Acid Assay Kit (**Cat. No. K608-100**)

Xanthine Oxidase Assay Kit (**Cat. No. K710-100**)

**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**