

## Carotenoid Mixture

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: 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	Carotenoid mixture is a mixture of carotenoids that contains the antioxidative and anti-inflammatory carotenoid capsanthin and the antioxidative vitamin A precursor $\beta$ -carotene, as well as additional carotenoids and carotenoid esters.1,2,3,4
Targets(IC50)	Others

## Solubility Information

Solubility	Ethanol: Miscible PBS (pH 7.2): Soluble DMF: Miscible DMSO: Miscible ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Reference

- Kim, J.S., Lee, W.M., Rhee, H.C., et al. Red paprika (*Capsicum annuum* L.) and its main carotenoids, capsanthin and  $\beta$ -carotene, prevent hydrogen peroxide-induced inhibition of gap-junction intercellular communication. *Chem. Biol. Interact.* 254:146-155(2016)
- Narisawa, T., Fukaura, Y., Hasebe, M., et al. Prevention of N-methylnitrosourea-induced colon carcinogenesis in rats by oxygenated carotenoid capsanthin and capsanthin-rich paprika juice. *Proc. Soc. Exp. Biol. Med.* 224(2):116-122(2000)
- Horie, S., Okuda, C., T., Y., et al. Purified canola lutein selectively inhibits specific isoforms of mammalian DNA polymerases and reduces inflammatory response. *Lipids* 45(8):713-721(2010)
- Negishi, H., Ueda, Y., and Azuma, M. Antioxidant fat-soluble vitamins and lipid peroxides in serum. *J. Clin. Biochem. Nutr.* 26:227-234(1999)

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