

zeaxanthin epoxidase

Cat. No. EXWM-0899 Lot. No. (See product label)

Introduction	
Description Synonyms	A flavoprotein (FAD) that is active under conditions of low light. Along with EC 1.10.99.3, violaxanthin de-epoxidase, this enzyme forms part of the xanthophyll (or violaxanthin) cycle, which is involved in protecting the plant against damage by excess light. It will also epoxidize lutein in some higher-plant species. Zea-epoxidase
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 1.14.13.90
CAS No.	149718-34-3
Reaction	zeaxanthin + 2 NAD(P)H + 2 H+ + 2 O2 = violaxanthin + 2 NAD(P)+ + 2 H2O (overall reaction); (1a) zeaxanthin + NAD(P)H + H+ + O2 = antheraxanthin + NAD(P)+ + H2O; (1b) antheraxanthin + NAD(P)H + H+ + O2 = violaxanthin + NAD(P)+ + H2O
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 $^{\circ}$ C for short term. For long term storage, store it at -20 $^{\circ}$ C~-80 $^{\circ}$ C.