Creative Enzymes®

Allene Oxide Synthase from Parthenium argentatum, Recombinant

Cat. No. NATE-0808

Lot. No. (See product label)

Introduction

Description	Potent anti-oxidant enzyme to remove lipid hydroperoxides in biological samples. Allene oxide synthase converts lipoxygenase derived fatty acid hydroperoxides to unstable allene epoxides. In plants, allene oxide is a precursor of jasmonic acid, which is important for growth regulation.
Applications	Allene Oxide Synthase is a potent anti-oxidant enzyme used to remove lipid hydroperoxides in various biological samples. It may also be used to study stress induced gene expression in plants.
Synonyms	hydroperoxide isomerase; linoleate hydroperoxide isomerase; linoleic acid hydroperoxide isomerase; HPI; (9Z,11E,14Z)-(13S)-hydroperoxyoctadeca-9,11,14-trienoate 12,13-hydro-lyase; (9Z,11E,14Z)-(13S)-hydroperoxyoctadeca-9,11,14-trienoate 12,13-hydro-lyase [(9Z)-(13S)-12,13-epoxyoctadeca-9,11-dienoate-forming]; allene oxide synthase; AOS; EC 4.2.1.92; hydroperoxide dehydratase

Product Information

Species	Parthenium argentatum
Source	E. coli
Form	Supplied as a solution in phosphate buffered sale pH 7.2
EC Number	EC 4.2.1.92
Activity	25,000-40,000 units/mg protein
Unit Definition	One unit will cause a change in A234nm of 1.0 per minute at pH 7.0 at 25 °C in a 13S-HPOD((13(S)-hydroperoxy-(9Z,11E)-octadecanoic Acid) reduction assay.

Usage and Packaging

Package	vial of ~300 µg

Storage and Shipping Information

Storage	Store at -20°C