

linoleate 9S-lipoxygenase

Cat. No. EXWM-0577

Lot. No. (See product label)

Introduction

Description Contains nonheme iron. A common plant lipoxygenase that oxidizes linoleate and α -linolenate, the two

most common polyunsaturated fatty acids in plants, by inserting molecular oxygen at the C9 position with (S)-configuration. The enzyme plays a physiological role during the early stages of seedling growth. The enzyme from Arabidopsis thaliana shows comparable activity towards linoleate and linolenate. EC 1.13.11.12 (linoleate 13S-lipoxygenase) catalyses a similar reaction at another position of these fatty

acids.

Synonyms 9-lipoxygenase; 9S-lipoxygenase; linoleate 9-lipoxygenase; LOX1 (gene name); 9S-LOX

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.13.11.58

Reaction linoleate + O2 = (9S,10E,12Z)-9-hydroperoxy-10,12-octadecadienoate

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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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1/1