

## Native Glycine max (soybean) Lipoxidase

Cat. No. NATE-0407

Lot. No. (See product label)

Introduction

**Description** Catalyzes the hydroperoxidation of lipids containing a cis,cis-1,4-pentadiene

structure.

**Applications** The soybean enzyme will use arachidonic acid as a substrate, with  $\sim 15\%$  of the

activity indicated using linoleic acid as the substrate; the product of arachidonic acid oxidation is 12-or 15-hydroperoxyarachidonic acid (12-HPETE or 15-HPETE).

Synonyms Lipoxygenases; EC 1.13.11.12; 9029-60-1; 13-lipoxidase; carotene oxidase; 13-

lipoperoxidase; fat oxidase; 13-lipoxydase; lionoleate:O2 13-oxidoreductase;

linoleate 13S-lipoxygenase

**Product Information** 

**Source** Glycine max (soybean)

Form Type I, ammonium sulfate suspension, Suspension in 2.3 M (NH4)2SO4 solution, pH

approx. 6.0; Type II, lyophilized powder, Contains stabilizer and NaCl.

**EC Number** EC 1.13.11.12

*CAS No.* 9029-60-1

Molecular Weight mol wt 108 kDa (two 54 kDa subunits)

Activity Type I, 500,000-1,000,000 units/mg protein; Type II, > 50,000 units/mg solid.

**Unit Definition** One unit will cause an increase in A234 of 0.001 per min at pH 9.0 at 25°C when

linoleic acid is the substrate in 3.0 ml volume (1 cm light path). One A234 unit is

equivalent to the oxidation of 0.12  $\mu \text{mole}$  of linoleic acid.

Storage and Shipping Information

**Storage** 2-8°C

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