

Native Soybeans LOX3 Protein

Cat. No. LOX3-11S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product contains primarily 13S-lipoxygenase-1 and lipoxygenase Lx3 which are non-heme, non-sulfur ferroproteins, that are 94 and 97 kDa, respectively.
Species	Soybean
Source	Soybean
Description	Plant lipoxygenase may be involved in a number of diverse aspects of plant physiology including growth and development, pest resistance, and senescence or responses to wounding.
Molecular Mass	94 and 97 kDa
Purity	≥ 70% estimated by SDS-PAGE
Unit Definition	One unit of enzyme causes an increase of 0.001 absorbance units at 234 nm when incubated with 7 μM linoleate at 25 centigrade in 0.1 M borate buffer, pH 9.0, in a total volume of 1.0 mL. Lipoxygenase activity quantified spectrophotometrically.
Stability	≥ 1 year
Storage	At -80 centigrade.
Storage Buffer	100 mM Tris, pH 7.0, 10% glycerol

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Shipping Dry ice in continental US; may vary elsewhere

GENE INFORMATION

Gene Name LOX3 lipoxygenase-3 [Glycine max (soybean)]

Official Symbol LOX3

Synonyms LOX3; lipoxygenase-3; L-3; Lx3; LOX1.3; seed linoleate 9S-lipoxygenase-3; Seed lipoxygenase-3; lipoxygenase L-3; EC 1.13.11.58; 13-S-Lipoxygenase-1; 15-Lipoxygenase; Lipoxygenase Lx3

Gene ID 547869

mRNA Refseq NM_001248454

Protein Refseq NP_001235383

UniProt ID B3TDK6

SDS-PAGE



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Lane 1: MW Markers

Lane 2: Lipoxygenase from Glycine max (soybean)(1 µg)

Lane 3: Lipoxygenase from Glycine max (soybean)(2 µg)

Lane 4: Lipoxygenase from Glycine max (soybean)(4 µg)

Representative gel image shown; actual purity may vary between each batch.

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