

Native Glycine max LOX3 Protein

Cat. No. LOX3-185G **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native LOX3 Protein purified from Soybeans (Provar).
Species	Glycine max
Source	Glycine max
Description	This product contains primarily 13S-lipoxygenase-1 and lipoxygenase Lx3 which are non-heme, non-sulfur ferropoteins, that are 94 and 97 kDa, respectively. 13-S-Lipoxygenase is referred to as a type-1 enzyme and exhibits maximum catalytic activity at pH 9.0.
Molecular Mass	94 and 97 kDa
Purity	≥70% estimated by SDS-PAGE
Unit Definition	One unit of enzyme causes an increase of 0.001 A 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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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

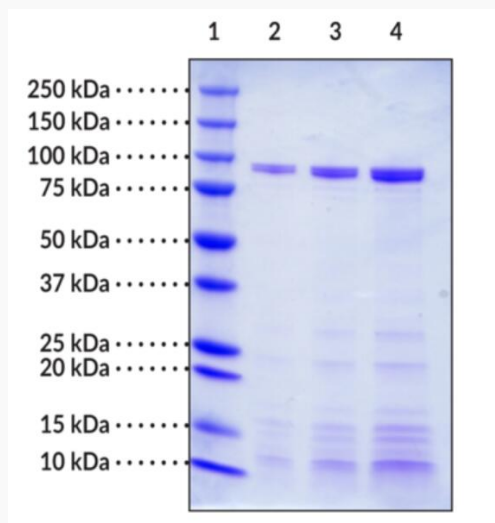
Gene ID 547869

mRNA Refseq NM_001248454

Protein Refseq NP_001235383

UniProt ID B3TDK6

**SDS-PAGE Analysis
of Lipoxygenase
from Glycine max
(soybean)**



Lane 1: MW Markers

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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)

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