

Recombinant *Pseudomonas aeruginosa* lox Protein (M1-I678)

Cat. No. lox-1564P Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Pseudomonas aeruginosa</i> G-lipoxygenase(M1-I678 end) protein without tag was expressed in <i>E. coli</i>
Species	<i>Pseudomonas aeruginosa</i>
Source	<i>E. coli</i>
ProteinLength	M1-I678
Description	In presence of oxygen, converts linoleate into (9S)-hydroperoxy-10,12-octadecenoate (9HPOD), which spontaneously decomposes to the corresponding 9-hydroxy-10,12-octadecenoate (9HOD), and into 13-hydroperoxy-9,11-octadecenoate (13HPOD) which spontaneously decomposes to the corresponding 13-hydroxy-9,11-octadecenoate (13HOD). Also active on linolenate. To a lesser extent, is also able to convert oleate into (10S)-hydroperoxy-8E-octadecenoate, which spontaneously decomposes to the corresponding 10-hydroxy-8E-octadecenoate. Is almost not active on arachidonate.
Form	Liquid
Endotoxin	< 0.01 EU/μg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade

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Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Official Symbol	lox
Synonyms	Linoleate 9/13-lipoxygenase; lox; EC:1.13.11.12; Oleate 10S-lipoxygenase; EC:1.13.11.77; EC:1.13.11.58
UniProt ID	Q8RNT4

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