Linoleate 9s-Lipoxygenase 5, Chloroplastic (LOX5) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Linoleate 9S-lipoxygenase 5, chloroplastic (LOX5), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Linoleate 9S-lipoxygenase 5, chloroplastic (LOX5) , partial
Product Gene Name	LOX5 recombinant protein
Product Synonym Gene Name	LOX5
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	101,060 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9LUW0
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for LOX5 recombinant protein	MBS1350962 is a recombinant protein targeting LOX5. Also known as Recombinant Arabidopsis thaliana Linoleate 9S-lipoxygenase 5, chloroplastic (LOX5) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of LOX5 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LOX5. It may not necessarily be applicable to this product.

NCBI GI #	30686619
NCBI GeneID	821808
NCBI Accession #	NP_188879.2
UniProt Primary Accession #	Q9LUW0
UniProt Secondary Accession #	Q9FNX7
UniProt Related Accession #	Q9LUW0
GenBank Nucleotide #	NM_113137.4
NCBI Official Full Name	PLAT/LH2 domain-containing lipoxygenase family protein

NCBI Official Symbol	LOX5
NCBI Official Synonym Symbols	Arabidopsis thaliana lipoxygenase 5; ATLOX5
UniProt Protein Name	Linoleate 9S-lipoxygenase 5
UniProt Synonym Protein Names	Lipoxygenase 5; AtLOX5
Protein Family	Linoleate 9S-lipoxygenase
UniProt Gene Name	LOX5
UniProt Synonym Gene Names	AtLOX5
NCBI Protein Information	PLAT/LH2 domain-containing lipoxygenase family protein
NCBI Summary for LOX5	Encodes lipoxygenase5 (LOX5). LOX5 activity in roots facilitates green peach aphid colonization of Arabidopsis foliage by promoting green peach aphid feeding from sieve element and water consumption from xylem.
UniProt Comments for LOX5	9S-lipoxygenase that can use linoleic acid or linolenic acid as substrates. Plant lipoxygenases may be involved in a number of diverse aspects of plant physiology including growth and development, pest resistance, and senescence or responses to wounding. Catalyzes the hydroperoxidation of lipids containing a cis,cis-1,4-pentadiene structure. Function as regulators of root development by controlling the emergence of lateral roots.
Research Articles on LOX5	**1.** Plant 9-lipoxygenases (9-LOXs) are engaged during infection to control the balance between salicylic acid (SA) and jasmonic acid (JA) signaling to facilitate infection.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/linoleate-9s-lipoxygenase-5-chloroplastic-lox5/1350962