LOXL1 recombinant protein

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CATALOG #	HOST	APPLICATIONS
AAA14246	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

LOXL1; LOXL1 recombinant protein; LOL; LOXL; LOXL1 Protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>70%
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 100mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.1ug/ul (varies by lot)
Sequence Length	2346
Applicable Applications for LOXL1 recombinant protein	WB (Western Blot)
Type	Recombinant Fusion Protein
Species	Human
Tag Information	GST tag
Expression System	Sf9 insect cells using baculovirus
Source Note	Recombinant human LOXL1 (292-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Gene Accession Number	BC015090
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Shipping: ships with Dry Ice

IMAGES

SDS-PAGE
The purity of LOXL1 was determined to be >70% by densitometry. Approx. MW 61 kDa.

ADDITIONAL INFORMATION

Related Product Information for LOXL1 recombinant protein	Recombinant human LOXL1 (292-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. **Scientific Background:** LOXL1 is a member of the lysyl oxidase gene family which is essential to the biogenesis of connective tissue. LOXL1 encodes an extracellular copper-dependent amine oxidase that catalyses the first step in the formation of crosslinks in collagens and elastin. LOXL1 is responsible for catalyzing the oxidative deamination of lysine residues of tropoelastin and this deamination causes spontaneous cross-linking and formation of elastin polymer fibers (1). LOXL1 serves both as a crosslinking enzyme and an element of the scaffold to ensure spatially defined deposition of elastin (2).
Product Categories/Family for LOXL1 recombinant protein	Lysyl Oxidase Proteins; Signaling Proteins - Lysyl Oxidase Proteins
References	1. Hewitt, A. W.et.al: Ancestral LOXL1 variants are associated with pseudoexfoliation in Caucasian Australians but with markedly lower penetrance than in Nordic people. Hum. Molec. Genet. 17: 710-716, 2008. 2. Liu, X. et.al: Elastic fiber homeostasis requires lysyl oxidase-like 1 protein. Nature Genet. 36: 178-182, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	33878694
NCBI GeneID	4016
UniProt Accession #	Q08397; Q6NUL3; Q96BW7
Molecular Weight	~61 kDa
NCBI Official Full Name	Homo sapiens lysyl oxidase-like 1, mRNA
NCBI Official Synonym Full Names	lysyl oxidase-like 1
NCBI Official Symbol	LOXL1
NCBI Official Synonym Symbols	LOL; LOXL
NCBI Protein Information	lysyl oxidase homolog 1; lysyl oxidase-like protein 1
UniProt Protein Name	Lysyl oxidase homolog 1
UniProt Gene Name	**LOXL1**
UniProt Synonym Gene Names	LOXL; LOL
UniProt Entry Name	LOXL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/loxl1-recombinant-protein-sf9-insect-cells-wb-western-blot/14246