

Recombinant Human LOXL1, GST-tagged

Cat. No. LOXL1-149H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LOXL1 (292-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	292-end a.a.
Description	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. LOXL1 serves both as a crosslinking enzyme and an element of the scaffold to ensure spatially defined deposition of elastin.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~61 kDa
Purity	>75% by densitometry
Applications	Western Blot

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Storage	Store product at –70 centigrade. 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.
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Concentration	0.1 µg/µl
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GENE INFORMATION

Gene Name	LOXL1 lysyl oxidase-like 1 [Homo sapiens]
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Official Symbol	LOXL1
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Synonyms	LOXL1; lysyl oxidase-like 1; lysyl oxidase homolog 1; LOL; LOXL; lysyl oxidase-like protein 1;
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Gene ID	4016
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mRNA Refseq	NM_005576
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Protein Refseq	NP_005567
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MIM	153456
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UniProt ID	Q08397
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Chromosome Location	15q24-q25
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Function	copper ion binding; metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on the CH-NH2 group of donors, oxygen as acceptor;
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