

Active Recombinant Human LOX, His-tagged

Cat. No. LOX-89H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LOX with a His tag at the C-terminus was expressed in Human HEK293 cells, 46.8 kDa.
Species	Human
Source	HEK293
ProteinLength	1-417 aa
Description	The protein encoded by this gene is an extracellular copper enzyme that initiates the crosslinking of collagens and elastin. The enzyme catalyzes oxidative deamination of the epsilon-amino group in certain lysine and hydroxylysine residues of collagens and lysine residues of elastin. In addition to crosslinking extracellular matrix proteins, the encoded protein may have a role in tumor suppression. Defects in this gene are a cause of autosomal recessive cutis laxa type I (CL type I). Two transcript variants encoding different isoforms have been found for this gene.
Purity	> 80% as determined by SDS-PAGE.
Bioactivity	With the Amplex Red assay as described by Palamakumbura and Trackman, Anal. Biochem. 300, 245-251 (2002), we are able to detect hydrogen peroxide generated by lysyl oxidase activity. However a significant percentage of the signal obtained was due to the presence of hydrogen peroxide generated by lysyl oxidase activity prior to the addition of the assay substrate. At this time, we cannot conclusively determine whether the protein is currently active, although the presence of hydrogen peroxide

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definitively demonstrates that the protein is or was active.

Concentration > 50 ug/ml as determined by BCA.

PredictedMW 46.8 kDa

Storage Buffer 10% glycerol, 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

storage and Stability Store at -80 °C. Avoid repeated freeze-thaw cycles. Stable for 3 months from receipt of products under proper storage and handling conditions.

OfficialSymbol LOX

GENE INFORMATION

Gene Name LOX lysyl oxidase [Homo sapiens]

Synonyms LOX; lysyl oxidase; MGC105112;protein-lysine 6-oxidase; EC 1.4.3.13; OTTHUMP00000159161

Gene ID 4015

mRNA Refseq NM_002317

Protein Refseq NP_002308

MIM 153455

UniProt ID P28300

Chromosome Location 5q23.2

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Function

copper ion binding; metal ion binding; oxidoreductase activity

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