

Recombinant Human lysyl oxidase, His-tagged

Cat. No. LOX-608H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LOX, 169-417aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	169-417 a.a.
Description	LOX 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. Recombinant human LOX protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Molecular Mass	31.4 kDa (272aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSDDPYNPY KYSDDNPPYN YYDTYERPRP GGRYRPGYGT GYFQYGLPDL VADPYIQAS TYVQKMSMYN LRCAAEEENCL ASTAYRADVR DYDHRVLLRF PQRVKNQGTS DFLPSRPRYS WEWHSCHQHY HSMDEFSHYD LLDANTQRRV AEGHKASFCL EDTSCDYG YH RRFACTAHTQ

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GLSPGCDYTY GADIDCQWID ITDVKPGNYI LKVSVNPSYL VPESDYTNV
VRCDIRYTG HAYASGCTIS PY

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name LOX lysyl oxidase [Homo sapiens]

Official Symbol LOX

Synonyms LOX; lysyl oxidase; protein-lysine 6-oxidase; MGC105112;

Gene ID 4015

mRNA Refseq NM_001178102

Protein Refseq NP_001171573

MIM 153455

UniProt ID P28300

Chromosome Location 5q23.3-q31.2

Function copper ion binding; metal ion binding; oxidoreductase activity; protein-lysine 6-

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