Active Recombinant Human LOX Protein, Myc/DDK-tagged

Cat. No. LOX-91H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human lysyl oxidase (LOX) with a C-Myc/DDK tag was expressed in HEK293T.
Species	Human
Source	HEK293
ProteinLength	1-417 aa
Description	This gene encodes a member of the lysyl oxidase family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate a regulatory propeptide and the mature enzyme. The copper-dependent amine oxidase activity of this enzyme functions in the crosslinking of collagens and elastin, while the propeptide may play a role in tumor suppression. In addition, defects in this gene have been linked with predisposition to thoracic aortic aneurysms and dissections.
Bio-activity	Enzyme activity; In vivo treatment; Cell treatment; Binding assay; In vivo treatment
Molecular Mass	46.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade.
Concentration	> 50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

GENE INFORMATION

Gene Name	LOX lysyl oxidase [Homo sapiens (human)]
Official Symbol	LOX
Synonyms	LOX; lysyl oxidase; AAT10; protein-lysine 6-oxidase; EC 1.4.3.13
Gene ID	4015
mRNA Refseq	NM_002317
Protein Refseq	NP_002308
MIM	153455
UniProt ID	P28300

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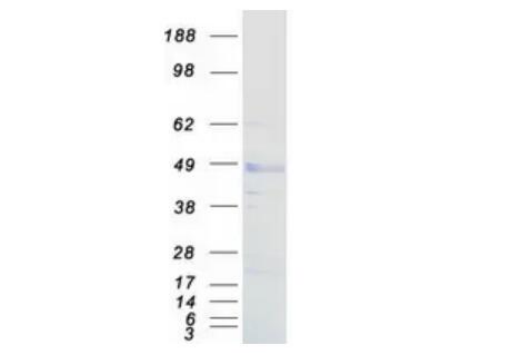
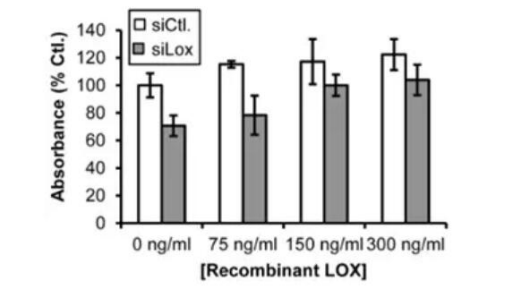
SDS-PAGE	 Coomassie blue staining of purified LOX protein. The protein was produced from HEK293T cells transfected with LOX cDNA clone using MegaTran 2.0.
Knocking down of LOX protein caused a reduction in the number of viable cells, which can be rescued by LOX protein.	

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