

## Active Recombinant Human LOX Protein, Myc/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant protein of human lysyl oxidase (LOX) with a C-Myc/DDK tag was expressed in HEK293T.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-417 aa
<b>Description</b>	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.
<b>Bio-activity</b>	Enzyme activity; In vivo treatment; Cell treatment; Binding assay; In vivo treatment
<b>Molecular Mass</b>	46.8 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	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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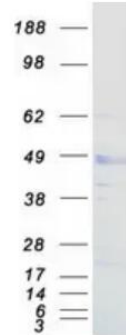
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	> 50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	LOX lysyl oxidase [ Homo sapiens (human) ]
<b>Official Symbol</b>	LOX
<b>Synonyms</b>	LOX; lysyl oxidase; AAT10; protein-lysine 6-oxidase; EC 1.4.3.13
<b>Gene ID</b>	4015
<b>mRNA Refseq</b>	NM_002317
<b>Protein Refseq</b>	NP_002308
<b>MIM</b>	153455
<b>UniProt ID</b>	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.**

