

Recombinant Mouse LOXL2 Protein (26-776 aa), His-tagged

Cat. No. LOXL2-630M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse LOXL2 Protein (26-776 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Mouse
Source	E.coli
ProteinLength	26-776 aa
Description	Mediates the post-translational oxidative deamination of lysine residues on target proteins leading to the formation of deaminated lysine (allysine). When secreted in Extracellular domain matrix, promotes cross-linking of Extracellular domain matrix proteins by mediating oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin. Acts as a regulator of sprouting angiogenesis, probably via collagen IV scaffolding. When nuclear, acts as a transcription corepressor and specifically mediates deamination of trimethylated 'Lys-4' of histone H3 (H3K4me3), a specific tag for epigenetic transcriptional activation. Involved in epithelial to mesenchymal transition (T) via interaction with SNAI1 and participates in repression of E-cadherin, probably by mediating deamination of histone H3 . Acts as a regulator of chondrocyte differentiation, probably by regulating expression of factors that control chondrocyte differentiation. ¹ Publication.
Form	Tris-based buffer, 50% glycerol

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Molecular Mass	88.4 kDa
AA Sequence	QYEGWPYQLQYPEYFQQPAPEHHQRQVPSDVVKIQVRLAGQKRKHNEGRVEVYY EGQWGTVCDDDFSIAAAHVVCRRQVGVEAKSWAASSSYGPGEPIWLDNIYCTGK ESTLASCSSNGWGVTDCKHTEDVGVVCSEKRIPGFKFDNSLINQIESLNIQVEDIRIR PILSAFRHRKPVTEGYVEVKEGKAWKQICNKHWTAKNSHVVCGMFGFPAEKTYNPK AYKTFASRRKLRYWKFSMNCTGTEAHISSCKLGPSVTRDPVKNATCENGQPAVVSC VPSQIFSPDGPFRFRKAYKPEQPLVRLRGGAQVGEGRVEVLKNGEWGTICDDKWD LVSASVVCRELGFGTAKEAITGSRLGQGIGPIHLNEVQCTGTEKSIIDCKFNTESSQGC NHEEDAGVRCNIPIMGFQKKVRLNGGRNPYEGRVEVLTERNGLVWGTVCQGNW GIVEAMVVCRLGLGFASNAFQETWYWHGNIFANNVMSGVKCSGTELSLAHCRH DEEVACPEGGVRFAGVACSETAPDLVLNAEIVQQTAYLEDPRMSLLQCAMEENCL SASAVHTDPTRGHRLLRFSSQIHNNQSDFRPKNGRHAWIWHDCRHHYSMEVF TYYDLLSLNGTKVAEGHKASFCELTECEGDIQKSYECANFGEQGITMGCWDMYRH DIDCQWIDITDVPPGDYLFQVVINPNYEVPESDFSNNIMKCRSRYDGYRIWMYNCHV GGAFSEETEQQFEHFSGLLNNQLSVQ
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

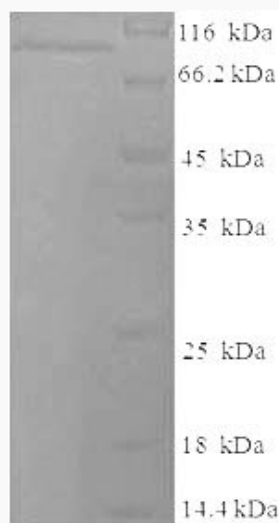
GENE INFORMATION

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Gene Name	Loxl2 lysyl oxidase-like 2 [Mus musculus]
Official Symbol	LOXL2
Synonyms	LOXL2; 1110004B06Rik; 4930526G11Rik; 9430067E15Rik; MGC102220;
Gene ID	94352
mRNA Refseq	NM_033325
Protein Refseq	NP_201582
UniProt ID	P58022



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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