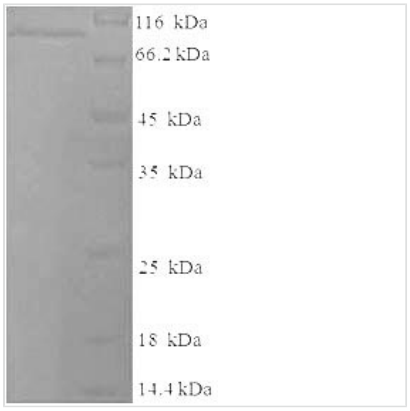
Recombinant Mouse Lysyl oxidase homolog 2 (Loxl2)

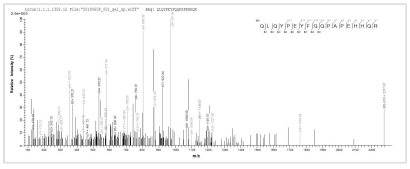
Product Code	CSB-EP013041MO
Relevance	Mediates the post-translational oxidative deamination of lysine residues on target proteins leading to the formation of deaminated lysine (allysine). When secreted in Extracellular domain matrix, promotes cross-linking of Extracellular domain matrix proteins by mediating 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
Abbreviation	Recombinant Mouse Loxl2 protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P58022
Alias	Lysyl oxidase-like protein 2
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	QYEGWPYQLQYPEYFQQPAPEHHQRQVPSDVVKIQVRLAGQKRKHNEGRVE VYYEGQWGTVCDDDFSIHAAHVVCRQVGYVEAKSWAASSSYGPGEGPIWLD NIYCTGKESTLASCSSNGWGVTDCKHTEDVGVVCSEKRIPGFKFDNSLINQIES LNIQVEDIRIRPILSAFRHRKPVTEGYVEVKEGKAWKQICNKHWTAKNSHVVCG MFGFPAEKTYNPKAYKTFASRRKLRYWKFSMNCTGTEAHISSCKLGPSVTRD PVKNATCENGQPAVVSCVPSQIFSPDGPSRFRKAYKPEQPLVRLRGGAQVGE GRVEVLKNGEWGTICDDKWDLVSASVVCRELGFGTAKEAITGSRLGQGIGPIH LNEVQCTGTEKSIIDCKFNTESQGCNHEEDAGVRCNIPIMGFQKKVRLNGGRN PYEGRVEVLTERNGSLVWGTVCGQNWGIVEAMVVCRQLGLGFASNAFQETW YWHGNIFANNVVMSGVKCSGTELSLAHCRHDEEVACPEGGVRFGAGVACSE TAPDLVLNAEIVQQTAYLEDRPMSLLQCAMEENCLSASAVHTDPTRGHRRLLR FSSQIHNNGQSDFRPKNGRHAWIWHDCHRHYHSMEVFTYYDLLSLNGTKVAE GHKASFCLEDTECEGDIQKSYECANFGEQGITMGCWDMYRHDIDCQWIDITD VPPGDYLFQVVINPNYEVPESDFSNNIMKCRSRYDGYRIWMYNCHVGGAFSE ETEQKFEHFSGLLNNQLSVQ

Research Area	Others
Source	E.coli
Target Names	Loxl2
Expression Region	26-776aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	88.4kDa
Protein Length	Full Length of Mature Protein

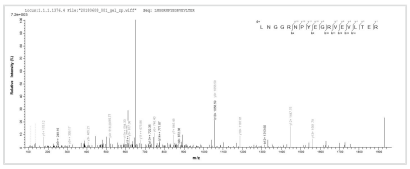
Image



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP013041MO could indicate that this peptide derived from E.coli-expressed Mus musculus (Mouse) Loxl2.



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Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.