



Recombinant human Lysyl oxidase homolog 1 (LOXL1), partial

Product Code	CSB-MP013040HU
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.	Q08397
Relevance	LOXL1 is a member of the lysyl oxidase gene family. The prototypic member of the family is essential to the biogenesis of connective tissue, encoding an extracellular copper-dependent amine oxidase that catalyses the first step in the formation of crosslinks in collagens and elastin. A highly conserved amino acid sequence at the C-terminus end appears to be sufficient for amine oxidase activity, suggesting that each family member may retain this function. The N-terminus is poorly conserved and may impart additional roles in developmental regulation, senescence, tumor suppression, cell growth control, and chemotaxis to each member of the family. LOXL1 is active on elastin and collagen substrates. Genetic variations in LOXL1 are associated with risk of developing exfoliation syndrome (XFS) [MIM:177650]; also called exfoliation glaucoma (XFG). Exfoliation syndrome (XFS) is characterized by accumulation of abnormal microfibrillar deposits that line the aqueous bathed surfaces of the anterior segment of the eye. The prevalence of XFS increases with age, and a number of studies have pointed to a geographical clustering of XFS, although this condition is found worldwide; reported prevalence rates average about 10 to 20% of the general population over age 60.
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	VGS DTVRGQARHPFGFGQVPDNWREVAVG DSTGMARARTSVSQQRHGGSA SSVSASAFASYRQQPSYPQQFPYPQAPFVSQYENYDPASRTYDQGFVYYRP AGGGVGAGAAAVASAGVIYPYQPRARYEEYGGGEELPEYPPQGFYPAPERP YVPPPPPPDGLDRRYSHSLYSEGTPGFEQAYPDGPEAAQAHGGDPRLGW YPPYANPPPEAYGPPRALEPPYLPVRSSTPPP GGERNGAQQGRLSVGSVY RPNQNGRGLPDLVPDPNYVQASTYVQRAHLYSLRCAAEEKCLASTAYAPEAT DYDVRVLLRFPQRVKNQGTADFLPNRPRHTWEWHSCHQHYHSMDEF SHYDL LDAATGKKVAEGHKASF CLEDSTCDFGNL KRYACTSHTQGLSPGCYDTYNADI DCQWIDITDVQPGNYILKVHVNP KYIVLESDF TNNVRCNIHYTGRYVSATNCKI VQS
Research Area	Metabolism
Source	Mammalian cell
Target Names	LOXL1



Expression Region	106-574aa
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Partial
Target Details	<p>This gene encodes a member of the lysyl oxidase gene family. The prototypic member of the family is essential to the biogenesis of connective tissue, encoding an extracellular copper-dependent amine oxidase that catalyses the first step in the formation of crosslinks in collagens and elastin. A highly conserved amino acid sequence at the C-terminus end appears to be sufficient for amine oxidase activity, suggesting that each family member may retain this function. The N-terminus is poorly conserved and may impart additional roles in developmental regulation, senescence, tumor suppression, cell growth control, and chemotaxis to each member of the family.</p>
Reconstitution	<p>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.</p>
Shelf Life	<p>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.</p>