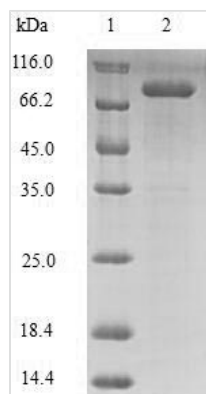




# Recombinant Human Protein-lysine 6-oxidase (LOX)

<b>Product Code</b>	CSB-BP013038HU
<b>Relevance</b>	Responsible for the post-translational oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin (PubMed:26838787). Regulator of Ras expression. May play a role in tumor suppression. Plays a role in the aortic wall architecture
<b>Abbreviation</b>	Recombinant Human LOX protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	P28300
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	DDPYNPYKYSDDNPPYYNYDYTYERPRPGGRYRPGYGTGYFQYGLPDLVADP YYIQASTYVQKMSMYNLRCAAEEENCLASTAYRADVRDYDHRVLLRFPQRVKN QGTSDFLPSRPRYSWEWHSCHQHYHSMDEFSHYDLLDANTQRRVAEGHKA SFCLEDTSCDYGYYHRRFACTAHTQGLSPGCYDYGADIDCQWIDITDVKPGNY ILKVSVNPSYLVPESDYTNNVVRCDIRYTGHHAYASGCTISPY
<b>Research Area</b>	Signal Transduction
<b>Source</b>	Baculovirus
<b>Target Names</b>	LOX
<b>Protein Names</b>	Lysyl oxidase
<b>Expression Region</b>	169-417aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal MBP-tagged and C-terminal 6xHis-tagged
<b>Mol. Weight</b>	73.0 kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>Image</b>	



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

## Description

The plasmid vector incorporates the gene encoding the Human LOX protein (169-417aa), generating recombinant plasmid, which is then introduced into baculovirus cells. Selection of positive baculovirus cells is based on their capacity to withstand a particular antibiotic. Subsequently, the baculovirus cells containing the recombinant plasmid are cultivated under conditions that facilitate the expression of the Human LOX gene. The protein carries a N-terminal MBP tag and C-terminal 6xHis tag. Following expression, affinity purification is employed to isolate and purify the recombinant Human LOX protein from the cell lysate. Denaturing SDS-PAGE is used to resolve the resulting recombinant protein, enabling an estimation of its purity, exceeding 85%.

## 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.