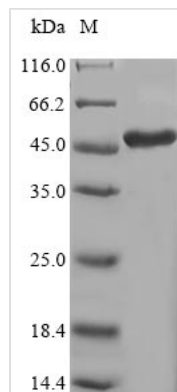




# Recombinant Human Protein-lysine 6-oxidase (LOX)

<b>Product Code</b>	CSB-EP013038HU
<b>Relevance</b>	Responsible for the post-translational oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin. 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 YYIQASTYVQKMSMYNLRCAAEEENCLASTAYRADVRDYDHRVLLRFPQQRVKN QGTSDFLPSRPRYSWEWHSCHQHYHSMDEFSHYDLLDANTQRRVAEGHKA SFCLEDTSCDYG YHRRFACTAHTQGLSPGCYD TYGADIDCQWIDITDVKPGNY ILKVSVNPSYLVPESDYTNNVVRCDIRYTGH HAYASGCTISPY
<b>Research Area</b>	Cardiovascular
<b>Source</b>	E.coli
<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 10xHis-SUMO-tagged and C-terminal Myc-tagged
<b>Mol. Weight</b>	49.0 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

Dive into the world of cardiovascular research with our meticulously crafted Recombinant Human Protein-Lysine 6-Oxidase (LOX). LOX, also known as lysyl oxidase, is a copper-dependent enzyme involved in the cross-linking of collagen and elastin, contributing to the integrity and elasticity of blood vessels. Its association with various cardiovascular diseases makes it an important target for scientific investigations.

Our Recombinant Human LOX protein is produced in an E.coli expression system, ensuring high-quality production. The protein encompasses the full length of the mature protein sequence (169-417aa) and features both N-terminal 10xHis-SUMO and C-terminal Myc tags, allowing for simplified purification and detection. With a purity of greater than 85% as determined by SDS-PAGE, our LOX protein guarantees consistent results across a variety of applications. Available in liquid and lyophilized powder forms, our Recombinant Human LOX protein is designed to meet the diverse needs of your cardiovascular research pursuits.

## 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

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