

LOX Protein, Human (His)

Cat. No.:	HY-P71706
Synonyms:	lox; LYOX; Lysyl oxidase; MGC105112; Protein lysine 6 oxidase; Protein-lysine 6-oxidase
Species:	Human
Source:	E. coli
Accession:	P28300 (P174-Y417)
Gene ID:	4015
Molecular Weight:	Approximately 32.4 kDa

PROPERTIES

AA Sequence	<pre> P Y K Y S D D N P Y Y N Y Y D T Y E R P R P G G R Y R P G Y G T G Y F Q Y G L P D L V A D P Y Y I Q A S T Y V Q K M S M Y N L R C A A E E N C L A S T A Y R A D V R D Y D H R V L L R F P Q R V K N Q G T S D F L P S R P R Y S W E W H S C H Q H Y H S M D E F S H Y D L L D A N T Q R R V A E G H K A S F C L E D T S C D Y G Y H R R F A C T A H T Q G L S P G C Y D T Y G A D I D C Q W I D I T D V K P G N Y I L K V S V N P S Y L V P E S D Y T N N V V R C D I R Y T G H H A Y A S G C T I S P Y </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The LOX protein assumes a pivotal role in the post-translational oxidative deamination of peptidyl lysine residues within precursors to fibrous collagen and elastin, as highlighted by its involvement in the modification of these structural proteins. Acting as a regulator of Ras expression, LOX also exhibits potential implications in tumor suppression, suggesting a multifaceted role in cellular homeostasis and cancer-related processes. Additionally, the protein is implicated in shaping the architecture of the aortic wall, contributing to the structural integrity and function of this crucial vascular component. The diverse functions of LOX underscore its significance in extracellular matrix dynamics, Ras regulation, and potential tumor</p>
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suppressive mechanisms, making it a key player in cellular and tissue homeostasis.

Caution: Product has not been fully validated for medical applications. For research use only.

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