
Product Data Sheet

Product Name: LOX Human
 Cat. No.: GP21886
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Lysyl Oxidase; EC 1.4.3.13; Protein-lysine 6-oxidase; Lysyloxidase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSDDPYNPY KYSDDNPYYN YYDTYERPRP GGRYRPGYGT GYFQYGLPDLVADPYIYQAS TYVQKMSMYN LRCAAEEENCL ASTAYRADVR DYDHRVLLRF PQRVKNQGTS DFLPSRPRYSWEWHSCHQHY HSMDEFSHYD LLDANTQRRV AEGHKASFLEDTSCDYGYH RRFACHTAHTQ GLSPGCYDTY GADIDCQWID ITDVKPGNYILKVSVNPSYL VPESDYTNNV VRCDIRYTGH HAYASGCTIS PY.		
Formulation	LOX protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.		

Introduction

Lysyl Oxidase also known as LOX is an extracellular copper enzyme which initiates the crosslinking of collagens and elastin. LOX catalyzes oxidative deamination of the epsilon-amino group in certain lysine and hydroxylysine residues of collagens and lysine residues of elastin. Adding up to crosslinking extracellular matrix proteins, LOX plays a part in tumor suppression. Moreover, defects in LOX are the cause of autosomal recessive cutis laxa type I, CL type I. Two transcript variants encoding dissimilar isoforms have been found for LOX.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

LOX Human Recombinant produced in E. Coli is a single, non-glycosylated polypeptide

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

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chain containing 272 amino acids (169-417a.a) and having a molecular mass of 31.4kDa. LOX is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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