

32-2509: LOX Recombinant Protein

Alternative Name : Lysyl Oxidase, EC 1.4.3.13, Protein-lysine 6-oxidase, Lysyl oxidase.

Description

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

Product Info

Amount :	20 µg
Purification :	Greater than 85% as determined by SDS-PAGE.
Content :	LOX protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSDDPYNPY KYSDDNPYYN YYDTYERPRP GGRRYRPGYGT GYFQYGLPDL VADPYIYQAS TYVQKMSMYN LRCAAEEENCL ASTAYRADVR DYDHRVLLRF PQRVKNQGTG DFLPSRPRYS WEWHSCHQHY HSMDEFSHYD LLDANTQRRV AEGHKASFCL EDTSCDYGYH RRFACTAHTQ GLSPGCYD TYGADIDCQWID ITDVKPGNYI LKVSVNPSYL VPESDYTNV VRCDIRYTG HAYASGCTIS PY.

