

LOX, 169-417aa, Human, His tag, E.coli

Cat.NO.: TP02840

3th Edition

Synonyms:Protein-lysine 6-oxidase, Lysyl oxidase

Description:LOX is an extracellular copper enzyme that initiates the crosslinking of collagens and elastin. The enzyme catalyzes oxidative deamination of the epsilon-amino group in certain lysine and hydroxylysine residues of collagens and lysine residues of elastin. In addition to crosslinking extracellular matrix proteins, the encoded protein may have a role in tumor suppression. Defects in this gene are a cause of autosomal recessive cutis laxa type I (CL type I). Two transcript variants encoding different isoforms have been found for this gene. Recombinant human LOX protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Molecular Weight:31.4 kDa (272aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSDDPYNPYKYSDDNPYYNYDYTYERPRPGGRYRPGYGTGYFYGLPDLVAD
PYYIQASTYVQKMSMYNLRCAAEEENCLASTAYRADVRDYDHRVLLRFPQRVKNQGTSDFLPSRPRYSWEWHSCH
QHYHSMDEFSHYDLLDANTQRRVAEGHKASFLEDTSCDYGYHRRFACTAHTQGLSPGCYDTYGADIDCQWIDIT
DVKPGNYILKVSVNPSYLVPESDYTNNVVRCDIRYTGHHAYASGCTISPY

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.