Human CellExp™ LOXL2, human recombinant

CATALOG NO: P1084-10 10 µg
P1084-50 50 µg

ALTERNATE NAMES: Lysyl oxidase homolog 2, LOXL2

SOURCE: HEK 293 cells (Gln 26 - Glu 774)

PURITY: > 75% by SDS – PAGE

MOL. WEIGHT: This protein is fused with human IgG1 Fc tag at C terminus and the protein has a calculated MW of 111.6 kDa. The predicted N-terminus is Gln 26. The protein migrates as 120-130 kDa under reducing (R) condition and 200-240 kDa under non-reducing (NR) condition on SDS-PAGE gel due to glycosylation.

ENDOTOXIN LEVEL: < 1.0 EU per 1µg of protein (determined by LAL method)

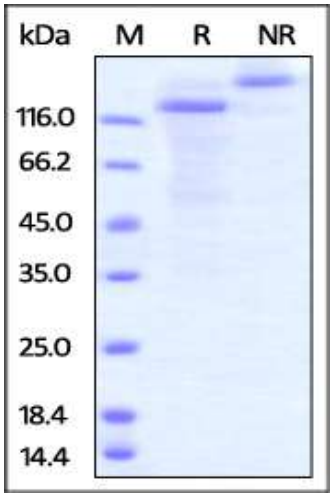
FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Generally Mannitol or Trehalose is added as a protectant before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -80°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -80°C.

DESCRIPTION: Lysyl oxidase homolog 2 also known as LOXL2, Lysyl oxidase-like protein 2, which is expressed in many tissues, highest expression in reproductive tissues, placenta, uterus and prostate, Up-regulated in a number of cancers cells and tissues. LOXL2 mediates the post-translational oxidative deamination of lysine residues on target proteins leading to the formation of deaminated lysine (allysine). When secreted in extracellular matrix, promotes cross-linking of extracellular matrix proteins by mediating oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin. LOXL2 acts as a regulator of sprouting angiogenesis, probably via collagen IV scaffolding. When nuclear, acts as a transcription corepressor and specifically mediates deamination of trimethylated 'Lys-4' of histone H3 (H3K4me3), a specific tag for epigenetic transcriptional activation. LOXL2 acts as a regulator of chondrocyte differentiation, probably by regulating expression of factors that control chondrocyte differentiation.



The purity of human LOXL2 was determined by SDS-PAGE under reducing (R) condition and staining overnight with Coomassie Blue.

RELATED PRODUCT:

- Human CellExp™ GITR / TNFRSF18, human recombinant **(Cat. No. 9231-10, 50)**
- GITR / TNFSF18 Polyclonal Antibody **(Cat. No. A1086-50)**
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- Human CellExp™ CD160/BY55, human recombinant **(Cat. No. 7386-10, -50)**
- Human CellExp™ CD166/ ALCAM, human recombinant **(Cat. No. 7437-10, -50)**
- Human CellExp™ CD172A / SIRP, human recombinant (**Cat. No. 7506-10, -50)**
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- Human CellExp™ CD47, human recombinant **(Cat. No. 7385-10, -50)**

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