

Lysyl oxidase homolog 3

Catalog No: #AP78515

Package Size: #AP78515-1 50ug #AP78515-2 100ug #AP78515-3 1mg

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Description

Product Name	Lysyl oxidase homolog 3
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% by SDS-PAGE
Species Reactivity	Mouse
Immunogen Description	530-733AA
Other Names	Lor2,Lysyl oxidase-like protein 3,Lysyl oxidase-related protein 2
Accession No.	Q9Z175Gene name:Loxl3
Uniprot	Q9Z175
GeneID	16950;
Calculated MW	22.44
Tag Info	His
Formulation	50mM NaH ₂ PO ₄ , 500mM NaCl Buffer with 500mM Imidazole,10%glycerol(PH8.0)
Storage	Store at -20C. (Avoid repeated freezing and thawing.)Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Protein-lysine 6-oxidase that mediates the oxidation of peptidyl lysine residues to allysine in target proteins (PubMed:26954549). Catalyzes the post-translational oxidative deamination of peptidyl lysine residues in precursors of elastin and different types of collagens, a prerequisite in the formation of cross-links between collagens and elastin (PubMed:26307084). Required for somite boundary formation by catalyzing oxidation of fibronectin (FN1), enhancing integrin signaling in myofibers and their adhesion to the myotendinous junction (MTJ) (PubMed:26954549). Acts as a regulator of inflammatory response by inhibiting differentiation of naive CD4(+) T-cells into T-helper Th17 or regulatory T-cells (Treg): acts by interacting with STAT3 in the nucleus and catalyzing both deacetylation and oxidation of lysine residues on STAT3, leading to disrupt STAT3 dimerization and inhibit STAT3 transcription activity (PubMed:28065600). Oxidation of lysine residues to allysine on STAT3 preferentially takes place on lysine residues that are acetylated (By similarity). Also able to catalyze deacetylation of lysine residues on STAT3.

References

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Note: This product is for in vitro research use only