Recombinant Mus musculus Lysyl oxidase homolog 2

Catalog No: #AP72655

Package Size: #AP72655-1 20ug #AP72655-2 100ug #AP72655-3 1mg

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Description

Product Name	Recombinant Mus musculus Lysyl oxidase homolog 2
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:26-776aaSequence Info:Full Length
Other Names	Lysyl oxidase-like protein 2
Accession No.	P58022
Uniprot	P58022
GeneID	94352;
Calculated MW	86.4 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	QYEGWPYQLQYPEYFQQPAPEHHQRQVPSDVVKIQVRLAGQKRKHNEGRVEVYYEGQWGTVCDDDFSIHA AHVVCRQVGYVEAKSWAASSSYGPGEGPIWLDNIYCTGKESTLASCSSNGWGVTDCKHTEDVGVVCSEKRI PGFKFDNSLINQIESLNIQVEDIRIRPILSAFRHRKPVTEGYVEVKEGKAWKQICNKHWTAKNSHVVCGMFGFP AEKTYNPKAYKTFASRRKLRYWKFSMNCTGTEAHISSCKLGPSVTRDPVKNATCENGQPAVVSCVPSQIFSP DGPSRFRKAYKPEQPLVRLRGGAQVGEGRVEVLKNGEWGTICDDKWDLVSASVVCRELGFGTAKEAITGSR LGQGIGPIHLNEVQCTGTEKSIIDCKFNTESQGCNHEEDAGVRCNIPIMGFQKKVRLNGGRNPYEGRVEVLTE RNGSLVWGTVCGQNWGIVEAMVVCRQLGLGFASNAFQETWYWHGNIFANNVVMSGVKCSGTELSLAHCRH DEEVACPEGGVRFGAGVACSETAPDLVLNAEIVQQTAYLEDRPMSLLQCAMEENCLSASAVHTDPTRGHRRL LRFSSQIHNNGQSDFRPKNGRHAWIWHDCHRHYHSMEVFTYYDLLSLNGTKVAEGHKASFCLEDTECEGDIQ KSYECANFGEQGITMGCWDMYRHDIDCQWIDITDVPPGDYLFQVVINPNYEVPESDFSNNIMKCRSRYDGYRI WMYNCHVGGAFSEETEQKFEHFSGLLNNQLSVQ
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Mediates the post-translational oxidative deamination of lysine residues on target proteins leading to the formation of deaminated lysine (allysine). When secreted in Extracellular domain matrix, promotes cross-linking of Extracellular domain matrix proteins by mediating oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin. 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. Involved in epithelial to mesenchymal transition (T) via interaction with SNAI1 and participates in repression of E-cadherin, probably by mediating deamination of histone H3 . Acts as a regulator of chondrocyte differentiation, probably by regulating expression of factors that control chondrocyte differentiation.1 Publication

References

Lysyl oxidase-like-2 (LOXL2) is a major isoform in chondrocytes and is critically required for differentiation.Iftikhar M., Hurtado P., Bais M.V., Wigner N., Stephens D.N., Gerstenfeld L.C., Trackman P.C.J. Biol. Chem. 286:909-918(2011)Research Topic:Others

Note: This product is for in vitro research use only