

LOXL2 recombinant protein

Recombinant Human LOXL2 Protein (His Tag), HPLC-verified

CATALOG # AAA259321	HOST CHO Stable Cells	REACTIVITY Human
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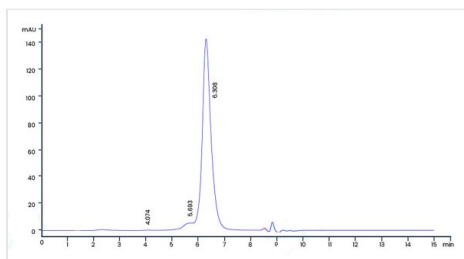
PRODUCT SYNONYMS

LOXL2; Recombinant Human LOXL2 Protein (His Tag); HPLC-verified; Human LOXL2/Lysyl oxidase homolog 2 Protein (His Tag); lysyl oxidase-like 2; LOR Protein; Human; LOR2 Protein; WS9-14 Protein; LOXL2 recombinant protein

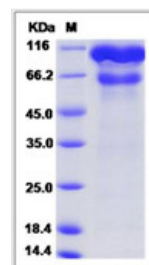
PRODUCT SPECIFICATIONS

Host	CHO Stable Cells
Reactivity	Human
Purity/Purification	>= 95% as determined by SDS-PAGE. >= 95% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile 20 mM MES, 50 mM NaCl. Please contact us for any concerns or special requirements. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Met1-Gln774
Tag	C-His
Predicted N Terminal	Gln 26
Endotoxin	< 1.0 EU perug protein as determined by the LAL method.
Activity	Measured by its ability to produce hydrogen peroxide during the oxidation of benzylamine. The specific activity is >2pmol/min/ug
Protein Construction	A DNA sequence encoding the human LOXL2 (Q9Y4K0)(Met1-Gln774) was expressed, fused with a polyhistidine tag at the C-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for LOXL2 recombinant protein	Lysyl oxidase homolog 2, also known as Lysyl oxidase-like protein 2, Lysyl oxidase-related protein 2, Lysyl oxidase-related protein WS9-14 and LOXL2, is a secreted protein that belongs to the lysyl oxidase family. LOXL2 contains four SRCR domains. The lysyl oxidase family is made up of five members: lysyl oxidase (LOX) and lysyl oxidase-like 1-4 (LOXL1, LOXL2, LOXL3, LOXL4). All members share conserved C-terminal catalytic domains that provide for lysyl oxidase or lysyl oxidase-like enzyme activity; and more divergent propeptide regions. LOX family enzyme activities catalyze the final enzymatic conversion required for the formation of normal biosynthetic collagen and elastin cross-links. LOXL2 is expressed by pre-hypertrophic and hypertrophic chondrocytes in vivo, and that LOXL2 expression is regulated in vitro as a function of chondrocyte differentiation. LOXL2 promotes chondrocyte differentiation by mechanisms that are likely to include roles as both a regulator and an effector of chondrocyte differentiation. LOXL2 expression could also be explored as a molecular target in the prevention of breast cancer progression.
References	Peng,L. e. al.. 2009. Carcinogenesis. 3. (10):1660-9. Hollosi,P. e. al.. 2009. In. . Cancer. 125(2):318-27. Rückert,F.e. al.. 2010. In. . Colorecta. Dis. 25(3):303-11. Iftikhar,M. e. al.,2011. . Bio. Chem. 286(2):909-18.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505011
NCBI GeneID	4017
NCBI Accession #	NP_002309.1
NCBI GenBank Nucleotide #	NM_002318.2
UniProt Accession #	Q9Y4K0; Q53HV3; Q9BW70; Q9Y5Y8; B2R5Q0
Molecular Weight	86,725 Da
NCBI Official Full Name	lysyl oxidase homolog 2
NCBI Official Synonym Full Names	lysyl oxidase like 2
NCBI Official Symbol	LOXL2
NCBI Official Synonym Symbols	LOR2; WS9-14
NCBI Protein Information	lysyl oxidase homolog 2
UniProt Protein Name	Lysyl oxidase homolog 2
UniProt Gene Name	LOXL2
UniProt Entry Name	LOXL2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.