

Datasheet for ABIN3093554
LOXL2 Protein (AA 26-774) (His tag)



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Overview

Quantity:	1 mg
Target:	LOXL2
Protein Characteristics:	AA 26-774
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LOXL2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	QYDSWPHYPE YFQQPAPEYH QPQAPANVAK IQLRLAGQKR KHSEGRVEVY YDGQWGTVCD DDFSIHAAHV VCRELGYPEA KSWTASSSYG KEGEPIWLDN LHCTGNEATL AACTSNGWGV TDCKHTEDVG VVCS DKRIPG FKFDNSLINQ IENLNIQVED IRIRAILSTY RKRTPVMEGY VEVKEGKTKWK QICDKHWTAK NSRVVCGMFG FPGERTYNTK VYKMFASRRK QRYWPFSDMC TGTEAHISSC KLGPQVSLDP MKNVTCENGL PAVVSCVPGQ VFSPDGPSRF RKAYKPEQPL VRLRGGAYIG EGRVEVLKNG EWGTVCDKW DLVSASVCCR ELFGGSAKEA VTGSRLGQGI GPIHLNEIQ C TGNEKSIIDC KFNAESQGCN HEEDAGVRCN TPAMGLQKKL RLNGGRNPYE GRVEVLVERN GSLVWGMVCG QNWGIVEAMV VCRQLGLGFA SNAFQETWYW HGDVNSNKVV MSGVKCSGTE LSLAHC RDG EDVACPQGGV QYGAGVACSE TAPDLVLNAE MVQQTTYLED RPMFMLQCAM EENCLSASAA QTDPTTGYRR LLRFSSQIHN NGQSDFRPKN GRHAWIWHDC HRHYHSMEVF THYDLLNLNG TKVAEGHKAS FCLEDTECEG DIQKNYECAN FGDQGITMGC WDMYRHDIDC QWVDITDVPP GDYLFQVVIN PNFEVAESDY SNNIMKCRSR YDGHRIWMYN
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CHIGGSFSEE TEKKFEHFSG LLNNQLSPQ

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human LOXL2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.

Product Details

Grade: Crystallography grade

Target Details

Target: LOXL2

Alternative Name: LOXL2 ([LOXL2 Products](#))

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 matrix, promotes cross-linking of extracellular 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 (EMT) via interaction with SNAI1 and participates in repression of E-cadherin, probably by mediating deamination of histone H3. Also involved in E-cadherin repression following hypoxia, a hallmark of epithelial to mesenchymal transition believed to amplify tumor aggressiveness, suggesting that it may play a role in tumor progression. Acts as a regulator of chondrocyte differentiation, probably by regulating expression of factors that control chondrocyte differentiation.

{ECO:0000269|PubMed:16096638, ECO:0000269|PubMed:20026874, ECO:0000269|PubMed:21233336, ECO:0000269|PubMed:21732535, ECO:0000269|PubMed:21835952, ECO:0000269|PubMed:22483618}.

Molecular Weight: 85.0 kDa Including tag.

UniProt: [Q9Y4K0](#)

Pathways: [Chromatin Binding](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Application Details

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)