

## Lysyl oxidase homolog 1 (LOXL1) Recombinant Protein | LOXL1 recombinant protein

Recombinant Human Lysyl oxidase homolog 1 (LOXL1), partial

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA116155</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|-------------------------------|-----------------------------------------------------------------|

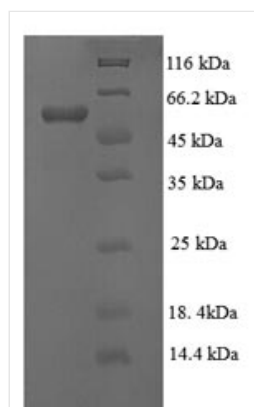
### PRODUCT SYNONYMS

Lysyl oxidase homolog 1 (LOXL1); Recombinant Human Lysyl oxidase homolog 1 (LOXL1); partial; Lysyl oxidase-like protein 1; LOL; LOXL1 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sequence Positions      | 106-574aa; Partial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence                | VGSDTVRGQA RHPFGFGQVP DNWREVAVGD STGMARARTS VSQQRHGGSA SSVSASAFAS TYRQQPSYPQ QFPYPQAPFV SQYENYDPAS RTYDQGFVYY RPAGGGVGAG AAASASAGVI YPYQPRARYE EYGGGEELPE YPPQGFYPAP ERPYVPPPPP PPDGLDRRYS HSLYSEGTPG FEQAYPDGP EAAQAHGGDP RLGWYPPYAN PPPEAYGPPR ALEPPYLPVR SSDTPPPGGE RGAQQGRLS VGSVYRPNQN GRGLPDLVPD PNYVQASTYV QRAHLYSLRC AAEEKCLAST AYAPEATDYD VRVLLRFPQR VKNQGTADFL PNRPRHTWEW HSCHQHYHSM DEFSDYDLLD AATGKKVAEG HKASFCLDS TCDFGNLKRY ACTSHTQGLS PGCYDTYNAD IDCQWIDITD VQPGNYILKV HVNPKYIVLE SDFTNNVVR NIHYTGRYVS ATNCKIVQS                                                                                                                                                                                                                                                         |
| Sequence Length         | 574                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Production Note         | <b>Special Offer:</b> The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our <b>or email to</b> for more details. |
| Preparation and Storage | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

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| Related Product Information for LOXL1 recombinant protein | Active on elastin and collagen substrates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Product Categories/Family for LOXL1 recombinant protein   | Metabolism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| References                                                | A novel human cDNA with a predicted protein similar to lysyl oxidase maps to chromosome 15q24-q25.Kenyon K., Modi W.S., Contente S., Friedman R.M.J. Biol. Chem. 268:18435-18437(1993) Structure of the human lysyl oxidase-like gene.Kenyon K., Sathya G., Contente S., Friedman R.M. Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) Analysis of the DNA sequence and duplication history of human chromosome 15.Zody M.C., Garber M., Sharpe T., Young S.K., Rowen L., O'Neill K., Whittaker C.A., Kamal M., Chang J.L., Cuomo C.A., Dewar K., FitzGerald M.G., Kodira C.D., Madan A., Qin S., Yang X., Abbasi N., Abouelleil A., Arachchi H.M., Baradarani L., Birditt B., Bloom S., Bloom T., Borowsky M.L., Burke J., Butler J., Cook A., DeArellano K., DeCaprio D., Dorris L. III, Dors M., Eichler E.E., Engels R., Fahey J., Fleetwood P., Friedman C., Gearin G., Hall J.L., Hensley G., Johnson E., Jones C., Kamat A., Kaur A., Locke D.P., Madan A., Munson G., Jaffe D.B., Lui A., Macdonald P., Mauceli E., Naylor J.W., Nesbitt R., Nicol R., O'Leary S.B., Ratcliffe A., Rounsley S., She X., Sneddon K.M.B., Stewart S., Sougnez C., Stone S.M., Topham K., Vincent D., Wang S., Zimmer A.R., Birren B.W., Hood L., Lander E.S., Nusbaum C.Nature 440:671-675(2006) Common sequence variants in the LOXL1 gene confer susceptibility to exfoliation glaucoma.Thorleifsson G., Magnusson K.P., Sulem P., Walters G.B., Gudbjartsson D.F., Stefansson H., Jonsson T., Jonasdottir A., Jonasdottir A., Stefansdottir G., Masson G., Hardarson G.A., Petursson H., Arnarsson A., Motallebipour M., Wallerman O., Wadelius C., Gulcher J.R., Thorsteinsdottir U., Kong A., Jonasson F., Stefansson K.Science 317:1397-1400(2007) Ancestral LOXL1 variants are associated with pseudoexfoliation in Caucasian Australians but with markedly lower penetrance than in Nordic people.Hewitt A.W., Sharma S., Burdon K.P., Wang J.J., Baird P.N., Dimasi D.P., Mackey D.A., Mitchell P., Craig J.E.Hum. Mol. Genet. 17:710-716(2008) A quantitative atlas of mitotic phosphorylation.Dephoure N., Zhou C., Villen J., Beausoleil S.A., Bakalarski C.E., Elledge S.J., Gygi S.P.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008) Association of LOXL1 gene with Finnish exfoliation syndrome patients.Lemmela S., Forsman E., Onkamo P., Nurmi H., Laivuori H., Kivela T., Puska P., Heger M., Eriksson A., Forsius H., Jarvela I.J. Hum. Genet. 54:289-297(2009) |

NCBI AND UNIPROT INFORMATION

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI GI #                        | 67782346                              |
| NCBI GeneID                      | 4016                                  |
| NCBI Accession #                 | NP_005567.2                           |
| NCBI GenBank Nucleotide #        | NM_005576.3                           |
| UniProt Accession #              | Q08397; Q6NUL3; Q96BW7                |
| Molecular Weight                 | 55.8 kDa                              |
| NCBI Official Full Name          | lysyl oxidase homolog 1 preproprotein |
| NCBI Official Synonym Full Names | lysyl oxidase like 1                  |

|                               |                         |
|-------------------------------|-------------------------|
| NCBI Official Symbol          | LOXL1                   |
| NCBI Official Synonym Symbols | LOL; LOXL               |
| NCBI Protein Information      | lysyl oxidase homolog 1 |
| UniProt Protein Name          | Lysyl oxidase homolog 1 |
| UniProt Gene Name             | <b>LOXL1</b>            |
| UniProt Synonym Gene Names    | LOXL; LOL               |
| UniProt Entry Name            | LOXL1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://www.aaabiotech.com/lox1-recombinant-protein-e-coli/116155>