

Recombinant Human LOXL1 Protein, T7-His-tagged

Cat. No. LOXL1-28H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length mature protein of human LOXL1 cDNA (95 - 573 aa, derived from BC068542) was constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal. This protein was expressed in E. coli as inclusion bodies.
Species	Human
Source	E.coli
Description	This gene encodes a member of the lysyl oxidase family of proteins. The prototypic member of the family is essential to the biogenesis of connective tissue, encoding an extracellular copper-dependent amine oxidase that catalyzes the first step in the formation of crosslinks in collagen and elastin. The encoded preproprotein is proteolytically processed to generate the mature enzyme. A highly conserved amino acid sequence at the C-terminus end appears to be sufficient for amine oxidase activity, suggesting that each family member may retain this function. The N-terminus is poorly conserved and may impart additional roles in developmental regulation, senescence, tumor suppression, cell growth control, and chemotaxis to each member of the family. Mutations in this gene are associated with exfoliation syndrome.
Form	Liquid
AA Sequence	MASMTGGQQMGRGRHHHHHGNLYFQGGEFRQAPSLPLPGRVGS DTVRGQARHP FGFGQVPDNWREVAVGDSTGMARARTSVSQQRHGGSSASSVSASAFASYRQQPS

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YPQQFPYPQAPFVSQYENYDPASRTYDQGFVYYRPAGGGVGAGAAVASAGVIYP
YQPRARYEEYGGGEELPEYPPQGFYPAPERPYVPPPPPPDGLDRRYSHSLYSEG
TPGFEQAYPDPGPEAAQAHGGDPRLGWYPPYANPPPEAYGPPRALEPPYLPVRSS
DTPPPGGERNGAQQGRLSVGSVYRPNQNGRGLPDLVPDPNYVQASTYVQRAHLY
SLRCAAEEKCLASTAYAPEATDYDVRVLLRFPQRVKNQGTADFLPNRPRHTWEWH
SCHQHYHSMDEFSHYDLLDAATGKKVAEGHKASFCELDSTCDFGNLKRYACTSHT
QGLSPGCYDTYNADIDCQWIDITDVQPGNYILKVHVNPKYIVLESDFTNVVRNIHY
TGRYVSATNCKIVQS

Purity > 90% by SDS-PAGE.

Applications

1. May be used for in vitro LOXL1 mediated tumor microenvironment ECM pathway regulation study for cancer cell with this protein either as soluble factor or as coating matrix protein.
2. May be used for protein-protein interaction mapping.
3. As Enzymatic substrate for various proteases.
4. Potential biomarker protein as IHC analysis of LOXL1 in various cancer patient samples for prediction of patient survival rate in various treatments.
5. As immunogen for specific antibody production.

Storage

Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least 30 days.

Concentration

0.2 mg/mL

Storage Buffer

Sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.

GENE INFORMATION

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Gene Name	LOXL1 lysyl oxidase like 1 [Homo sapiens (human)]
Official Symbol	LOXL1
Synonyms	LOXL1; lysyl oxidase like 1; LOL; LOXL; lysyl oxidase homolog 1; lysyl oxidase-like protein 1
Gene ID	4016
mRNA Refseq	NM_005576
Protein Refseq	NP_005567
MIM	153456
UniProt ID	Q08397

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