Recombinant Human LOXL2 Protein, Avi/His-tagged

Cat. No. LOXL2-3920H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LOXL2(Gln26-Gln774) fused with Avi/His tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Gln26-Gln774
Description	Lysyl oxidase homolog 2 is a member of the lysyl oxidase gene family. The prototypic member of the family is essential to the biogenesis of connective tissue, encoding an extracellular copper-dependent amine oxidase that catalyses the first step in the formation of crosslinks in collagens and elastin. A highly conserved amino acid sequence at the C-terminus end appears to be sufficient for amine oxidase activity. 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. LOXL2 can also crosslink collagen type IV and hence influence the sprouting of new blood vessels. LOXL2 is an enzyme that is up-regulated in several types of cancer and is associated with a poorer prognosis. LOXL2 changes the structure of histones and thus changes the shape of the cells, making it easier for the cancer cells to metastasize.
Form	Supplied as a 0.2 μm filtered solution of 50mM Sodium borate, 10mM CaCl,1.2M Urea, pH8.0.

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AA Sequence	QYDSWPHYPEYFQQPAPEYHQPQAPANVAKIQLRLAGQKRKHSEGRVEVYYDGQ WGTVCDDDFSI HAAHVVCRELGYVEAKSWTASSSYGKGEGPIWLDNLHCTGNEAT LAACTSNGWGVTDCKHTEDVG VVCSDKRIPGFKFDNSLINQIENLNIQVEDIRIRAIL STYRKRTPVMEGYVEVKEGKTWKQICDK HWTAKNSRVVCGMFGFPGERTYNTKV YKMFASRRKQRYWPFSMDCTGTEAHISSCKLGPQVSLDP MKNVTCENGLPAVVSC VPGQVFSPDGPSRFRKAYKPEQPLVRLRGGAYIGEGRVEVLKNGEWGTV CDDKW DLVSASVVCRELGFGSAKEAVTGSRLGQGIGPIHLNEIQCTGNEKSIIDCKFNAESQG CN HEEDAGVRCNTPAMGLQKKLRLNGGRNPYEGRVEVLVERNGSLVWGMVCGQ NWGIVEAMVVCRQL GLGFASNAFQETWYWHGDVNSNKVVMSGVKCSGTELSLAH CRHDGEDVACPQGGVQYGAGVACSE TAPDLVLNAEMVQQTTYLEDRPMFMLQCA MEENCLSASAAQTDPTTGYRRLLRFSSQIHNNGQSD FRPKNGRHAWIWHDCHRH YHSMEVFTHYDLLNLNGTKVAEGHKASFCLEDTECEGDIQKNYECAN FGDQGITMG CWDMYRHDIDCQWVDITDVPPGDYLFQVVINPNFEVAESDYSNNIMKCRSRYDGHR IWMYNCHIGGSFSEETEKKFEHFSGLLNNQLSPQGLNDIFEAQKIEWHEHHHHHH
Endotoxin	Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Storage	Store at < -20 centigrade, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Shipping	The product is shipped on dry ice/ice packs.

GENE INFORMATION

Gene Name	LOXL2 lysyl oxidase-like 2 [Homo sapiens]
Official Symbol	LOXL2
Synonyms	LOXL2; lysyl oxidase-like 2; lysyl oxidase homolog 2; WS9 14; lysyl oxidase related 2;

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	lysyl oxidase-like protein 2; lysyl oxidase-related protein 2; lysyl oxidase-related protein WS9-14; LOR2; WS9-14;
Gene ID	4017
mRNA Refseq	NM_002318
Protein Refseq	NP_002309
MIM	606663
UniProt ID	Q9Y4K0

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