

## 32-8938: Recombinant Human Lysyl Oxidase Homolog 2/LOXL2(C-Avi-His)(Discontinued)

**Gene :** LOXL2  
**Gene ID :** 4017  
**Uniprot ID :** Q9Y4K0

### Description

Source: Human cells.  
MW :86.7kD.

Recombinant Human Lysyl Oxidase Homolog 2 is produced by our Mammalian expression system and the target gene encoding Gln26-Gln774 is expressed fused with a Avi-His tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 50mM Sodium borate, 10mM CaCl<sub>2</sub>, 1.2M Urea, pH8.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** QYDSWPHYPEYFQQPAPEYHQPAQANVAKIQLRLAGQKRKHSEGRVEVYYDGGQWGTVCDDDF  
SIHAAHVVCRELGYVEAKSWTASSSYGKGEGPIWLDNLHCTGNEATLAactsSNGWGVTDCKHTE  
DVGVVCS DKRIPGFKFDNSLINQIENLNQVEDIRAILSTYRKRTPVMEGYVEVKEGKTWKQICDK  
HWTAKNSRVVCGMFGFPGERTYNTKVYKMFASRRKQRYWPFMSMDCTGTEAHISSCKLGPQVSLD  
PMKNVTCENGLPAVVSCVPGQVFSPDGPSRFRKAYKPEQPLVRLRGGAYIGEGRVEVLKNGEWG  
TVCDKWDLVSA SVVCRELGFGSAKEAVTGSRLGQGIGPIHLNEIQCTGNEKSIIDCKFNAESQGC  
NHEEDAGVRCNTPAMGLQKKLRLNGGRNPYEGRVEVLVERNGLVWGMVCGQNWGVGIVEAMVVC  
RQLGLGFASNAFQETWYWHGDVNSNKVVMMSGVKCSGTELSLAHCRHDGEDVACPQGGVQYGA  
GVACSETAPDLVLNAEMVQQTTYLED RPFMLQCAMEENCLSAQAQTDPTTGYRLLRFSSQIH  
NNGQSDFRPKNGRHAWIWDCHRHYSMEVFTHYDLLNLNGTKVAEGHKASFCELEDTECEGDIQ  
KNYECANFGDQGITMGCWDMYRHDIDCQWVDITDVPPGDYLFQVVINPNFEVAESDYSNNIMKCR  
SRYDGHRIWMYNCHIGGSFSEETEKKEHFHSGLLNNQLSPQGLNDIFEAQKIEWHEHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/Âµg (1 IEU/Âµg) as determined by LAL test.