# Elastin Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

## PRODUCT OVERVIEW

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| **Product Name** | Elastin (ELN), Blocking Peptide |
| **Full Product Name** | Elastin Blocking Peptide |
| **Product Gene Name** | ELN blocking peptide |
| **Product Synonym Names** | Elastin; ELN; ELN_HUMAN; SVAS; Tropoelastin; WBS; WS |
| **Form/Format** | Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml. |
| **Purity/Purification** | The purity is >90%,tested by HPLC and MS. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C. |
| **Antibody/Peptide Pairs** | Elastin peptide (MBS9626430) is used for blocking the activity of Elastin antibody (MBS9607717) |
| **Molecular Weight** | 60,980 Da |
| **OMIM** | 123700 |
| **Supply Chain Verification** | Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire. |
| **Notes** | For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for ELN blocking peptide** | Blocking/Control |
| **Related Product Information for ELN blocking peptide** | Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody. |
| **Other Notes** | Small volumes of ELN blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for ELN purchase** | MBS9626430 is a blocking peptide targeting ELN. Also known as Elastin Blocking Peptide. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ELN. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 126352440 |
| **NCBI GeneID** | 2006 |
| **NCBI Accession #** | NP_000492.2 |
| **UniProt Primary Accession #** | P15502 |
| **UniProt Secondary Accession #** | O15336; O15337; Q14233; Q14234; Q14235; Q14238; Q6P0L4; Q6ZWJ6; Q75MU5; Q7Z316; B3KTS6 |
| **UniProt Related Accession #** | P15502 |

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| **GenBank Nucleotide #** | NM_000501.3 |
| **NCBI Official Full Name** | elastin isoform a |
| **NCBI Official Synonym Full Names** | elastin |
| **NCBI Official Symbol** | ELN |
| **NCBI Official Synonym Symbols** | WS; WBS; SVAS |
| **UniProt Protein Name** | Elastin |
| **UniProt Synonym Protein Names** | Tropoelastin |
| **Protein Family** | Elastin |
| **UniProt Gene Name** | ELN |
| **UniProt Entry Name** | ELN_HUMAN |
| **NCBI Protein Information** | elastin; tropoelastin |
| **NCBI Summary for ELN** | This gene encodes a protein that is one of the two components of elastic fibers. The encoded protein is rich in hydrophobic amino acids such as glycine and proline, which form mobile hydrophobic regions bounded by crosslinks between lysine residues. Deletions and mutations in this gene are associated with supravalvular aortic stenosis (SVAS) and autosomal dominant cutis laxa. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for ELN** | elastin: Major structural protein of tissues such as aorta and nuchal ligament, which must expand rapidly and recover completely. Molecular determinant of the late arterial morphogenesis, stabilizing arterial structure by regulating proliferation and organization of vascular smooth muscle. Defects in ELN are the cause of cutis laxa, autosomal dominant, type 1 (ADCL1). A connective tissue disorder characterized by loose, hyperextensible skin with decreased resilience and elasticity leading to a premature aged appearance. Face, hands, feet, joints, and torso may be differentially affected. Additional variable clinical features are gastrointestinal diverticula, hernia, and genital prolapse. Rare manifestations are pulmonary artery stenosis, aortic aneurysm, bronchiectasis, and emphysema. Defects in ELN are the cause of supravalvular aortic stenosis (SVAS). SVAS is a congenital narrowing of the ascending aorta which can occur sporadically, as an autosomal dominant condition, or as one component of Williams-Beuren syndrome. ELN is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region. Haploinsufficiency of ELN may be the cause of certain cardiovascular and musculo-skeletal abnormalities observed in the disease. Belongs to the elastin family. 13 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Extracellular matrix; Secreted, signal peptide; Secreted<br><br>Chromosomal Location of Human Ortholog: 7q11.23<br><br>Cellular Component: proteinaceous extracellular matrix; extracellular region<br><br>Molecular Function: protein binding; extracellular matrix structural constituent<br><br>Biological Process: cell proliferation; extracellular matrix disassembly; extracellular matrix organization and biogenesis; organ morphogenesis; blood circulation; respiratory gaseous exchange<br><br>Disease: Cutis Laxa, Autosomal Dominant 1; Williams-beuren Syndrome; Supravalvular Aortic Stenosis |
| **Research Articles on ELN** | **1.** the role of the Asp-72 site in stabilizing the N-terminal segment of human tropoelastin |
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