Elastin Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	Elastin (ELN), Blocking Peptide
Full Product Name	Elastin Blocking Peptide
Product Gene Name	ELN blocking peptide
Product Synonym Names	Elastin; Tropoelastin
Host	Synthetic
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	Elastin peptide (MBS823599) is used for blocking the activity of Elastin antibody (MBS821275)
Molecular Weight	60,980 Da
OMIM	gene 185500
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for ELN blocking peptide	Blocking (BL)
Application Notes for ELN blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for ELN blocking peptide	MBS823599 is a blocking peptide targeting ELN. Also known as Elastin Blocking Peptide. Reactive in Human, Mouse, Rat. Host: Synthetic. The peptide is used to block Anti-Elastin Antibody reactivity.
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.

ADDITIONAL DETAILS

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

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
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. Protein type: Extracellular matrix; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 7q11.23 Cellular Component: proteinaceous extracellular matrix; extracellular region Molecular Function: protein binding; extracellular matrix structural constituent Biological Process: cell proliferation; extracellular matrix disassembly; organ morphogenesis; extracellular matrix organization and biogenesis; blood circulation; respiratory gaseous exchange Disease: Cutis Laxa, Autosomal Dominant 1; Williams-beuren Syndrome; Supravalvular Aortic Stenosis
Research Articles on ELN	**1.** AAA-SMCs have a unique gene expression profile and a proelastolytic phenotype that is augmented by macrophages.
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