

Elastin (ELN) Active Protein | ELN active protein

Active Elastin (ELN)

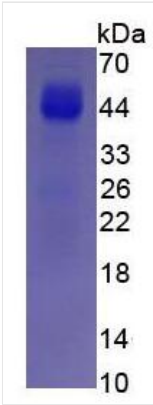
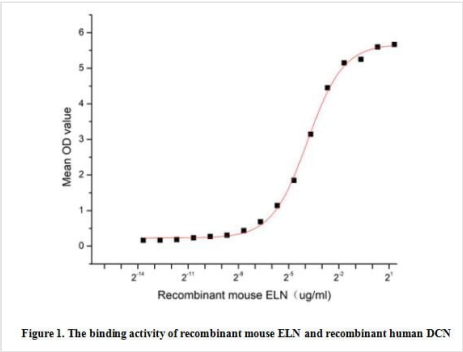
CATALOG # AAA161843	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Elastin (ELN); Active Elastin (ELN); Elastin; WBS; WS; SVAS; Tropoelastin; Supravalvular Aortic Stenosis; Williams-Beuren Syndrome⁴; ELN active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Pro266~Gly 443
Applicable Applications for ELN active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	N-terminal His and GST Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	9.3
Research Area	Metabolic pathway, Developmental science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months



Bioactivity

Elastin (ELN) is an extracellular matrix (ECM) protein responsible for the extensibility and elastic recoil of many vertebrate tissues. ELN is abundant in elastic tissues, and tissues rich in elastin include the aorta and major blood vessels, the lungs, elastic ligaments, tendons and the skin. ELN can bind the elastin receptor complex and other receptors and stimulate migration and proliferation of monocytes and skin fibroblasts. Elastokines can also contribute to cancer progression. Deletions and mutations in this gene are associated with supravalvular aortic stenosis (SVAS), autosomal dominant cutis laxa. Decorin (DCN), an extracellular matrix (ECM) protein, is one of targets of ECM. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse ELN and recombinant human DCN. Briefly, ELN was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to DCN-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-ELN pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant mouse ELN and recombinant human DCN was shown in Figure 1, the EC50 for this effect is 0.068 ug/mL.

SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for ELN active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	31542606
NCBI GeneID	13717
NCBI Accession #	NP_031951.2
NCBI GenBank Nucleotide #	NM_007925.4
UniProt Accession #	P54320; Q8C9L8
Molecular Weight	71,938 Da
NCBI Official Full Name	elastin
NCBI Official Synonym Full Names	elastin
NCBI Official Symbol	Eln
NCBI Official Synonym Symbols	AI385707; AI480567; E030024M20Rik
NCBI Protein Information	elastin
UniProt Protein Name	Elastin
UniProt Gene Name	Eln

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/elastin-elN/161843>