

## Elastin (ELN) Recombinant Protein | ELN recombinant protein

Recombinant Elastin (ELN)

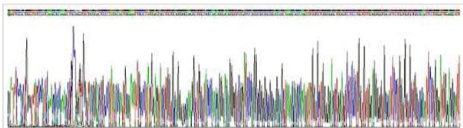
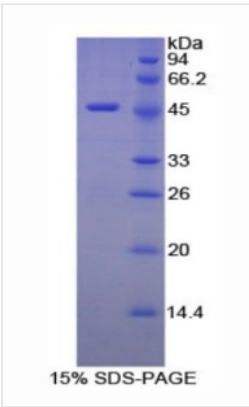
| CATALOG # | HOST   | REACTIVITY           | APPLICATIONS           |
|-----------|--------|----------------------|------------------------|
| AAA134295 | E.coli | Mus musculus (Mouse) | Western Blot, SDS-Page |

### PRODUCT SYNONYMS

Elastin (ELN); Recombinant Elastin (ELN); ELN recombinant protein

### PRODUCT SPECIFICATIONS

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                          | Mus musculus (Mouse)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity/Purification                                 | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                         | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 0.01% SKL, 5% Trehalose                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Concentration                                       | Original Concentration: 200ug/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Applicable Applications for ELN recombinant protein | WB (Western Blot), SDS-PAGE, Immunogen, Positive Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Source                                              | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Residues                                            | Pro266~Gly443                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tags                                                | N-terminal His and GST Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Subcellular Location                                | Secreted, Extracellular matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Traits                                              | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Predicted isoelectric point                         | 9.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Usage                                               | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Preparation and Storage                             | <p><b>Storage:</b><br/>Avoid repeated freeze/thaw cycles.<br/>Store at 2-8 degree C for one month.<br/>Aliquot and store at -80 degree C for 12 months.</p> <p><b>Stability Test:</b><br/>The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.</p> |



Gene Sequence  
Gene Sequencing (extract)

SDS-PAGE

```
PLGYP IKAPKLPGGY GLPYTNGKLP YGVAGAGGKA
GYPTGTGVGS QAAAAAAKAA KYGAGGAGVL PGVGGGIPG GAGATPGIGG
IAGAGTPAAA AAAAAAAKAA KYGAAGGLVP GPGVRLPGA GIPGVGGIPG
VGGIPGVGGP GIGGPGIVGG PGAVSPAAA KAAAKAAYG ARG
```

Sequence

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 31542606                                                                                                           |
| NCBI GeneID                      | 13717                                                                                                              |
| NCBI Accession #                 | NP_031951.2                                                                                                        |
| NCBI GenBank Nucleotide #        | NM_007925.3                                                                                                        |
| UniProt Accession #              | P54320; Q8C9L8                                                                                                     |
| Molecular Weight                 | Predicted Molecular Mass: 45.3kDa<br>Accurate Molecular Mass: 46kDa as determined by SDS-PAGE reducing conditions. |
| 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; tropoelastin                                                                                              |
| UniProt Protein Name             | Elastin                                                                                                            |
| UniProt Gene Name                | Eln                                                                                                                |
| UniProt Entry Name               | ELN_MOUSE                                                                                                          |

**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.