

For Research Use Only

# Recombinant Human Elastin protein (rFc Tag)



Catalog Number: Eg2766

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Human Elastin protein Gly27-Lys786 (Accession# P15502-3) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
2006

**Accession:**  
P15502-3

**Predicted Molecular Mass:**  
91.3 kDa

**SDS-PAGE:**  
90-110 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Elastic fibers are an abundant and integral part of many extracellular matrices, in which they provide the elastic properties to tissues such as arterial, lung, and skin. Elastic fibers are consisting of an elastin core surrounded by a mantle of fibrillin-rich microfibrils. Elastin is an extremely durable, insoluble biopolymer formed through the lysine-mediated crosslinking of its soluble precursor tropoelastin, which is an approximately 60-70 kDa protein. Deletions and mutations in the elastin gene (ELN) are associated with supravalvular aortic stenosis (SVAS) and autosomal dominant cutis laxa.

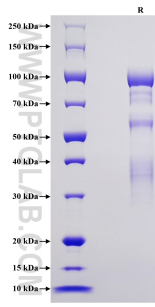
## References

1. Kielty, Cay M et al. Journal of cell science vol. 115,Pt 14 (2002): 2817-28.
2. Mithieux, Suzanne M, and Anthony S Weiss. Advances in protein chemistry vol. 70 (2005): 437-61.
3. Heinz, Andrea. Critical reviews in biochemistry and molecular biology vol. 55,3 (2020): 252-273.

## Synonyms

ELN, SVAS, Tropoelastin, WBS, WS

## Selected Validation Data



Purity of Recombinant Human Elastin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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