

For Research Use Only

# Recombinant Human MATN3 protein (rFc Tag)



Catalog Number: Eg3136

## 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 MATN3 protein Asp29-Arg486 (Accession# O15232) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

4148

**Accession:**

O15232

**Predicted Molecular Mass:**

75.4 kDa

**SDS-PAGE:**

68-75 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

Matrilin-3 (MATN3) is linked to the development of many types of cartilage, and part of the Matrilin family, which includes MATN1, MATN2, MATN3, and MATN4, a family of filamentous-forming adapter oligomeric extracellular proteins that are linked to the formation of cartilage and bone, as well as maintaining homeostasis after development. It is considered an extracellular matrix protein that functions as an adapter protein where the MATN3 subunit can form both homo-tetramers and hetero-oligomers with subunits from MATN1 which is the cartilage matrix protein. This restricted tissue has been strongly expressed in growing skeletal tissue as well as cartilage and bone.

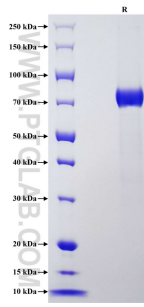
## References

1. Wang, Yi-Chun et al. International journal of molecular medicine vol. 36,6 (2015): 1648-56.
2. Muttigi, Manjunatha S et al. International journal of molecular sciences vol. 17,4 (2016): 590.
3. Pullig, O et al. Osteoarthritis and cartilage vol. 10,4 (2002): 253-63.

## Synonyms

EDM5, HOA, matrilin 3, Matrilin-3

## Selected Validation Data



Purity of Recombinant Human MATN3 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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