

## Recombinant Human MATN3 protein, T7/His-tagged

**Cat. No.** MATN3-103H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human Matrilin-3 cDNA (29 - 486aa, derived from BC139907) fused with T7-His-TEV cleavage site Tag (29aa) at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 29-486 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Human Matrilin-3 (MATN3) gene encodes a member of von Willebrand factor A domain containing protein family. This family of proteins is thought to be involved in the formation of filamentous networks in the extracellular matrices of various tissues. MATN3 protein contains two von Willebrand factor A domains; it is present in the cartilage extracellular matrix and has a role in the development and homeostasis of cartilage and bone. Mutations in this gene result in multiple epiphyseal dysplasia. |
| <b>Form</b>             | 0.4 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MASMTGGGQMGRGHHHHHHENLYFQGGEFGSDPVARPGFRRLETRGPGGSPGR<br>RPSAAPDGAPASGTSEPGRAR GAGVCKSRPLDLVFIIDSSRSVRPLEFTKVKTFFVS<br>RIIDTLDIGPADTRVAVVNYASTVKIEFQLQAYTDKQSLK QAVGRITPLSTGTMSGGLAI<br>QTAMDEAFTVEAGAREPSSNIPKVAIIVTDGRPQDQVNEVAARAQASGIELYAVGV D<br>RADMASLKMMASEPLEEHVFYVETYGVIEKLSSRFQETFCALDPCVLGTHQCQHVCI<br>SDGEGKHHCECSQGYTL NADKKTCSALDRCALNTHGCEHICVNDRSGSYHCECYE                                                                                                                                       |

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GYTLNEDRKTCSAQDKCALGTHGCQHICVNDRTGSHH CECYEGYTLNADKKTCSV  
RDKCALGSHGCQHICVSDGAASYHCDYCPGYTLNEDKKTCSATEEARRLVSTEDAC  
G CEATLAFQDKVSSYLQRLNTKLDDILEKLKINEYGQIHR

**Purity** >90% by SDS-PAGE

**Applications**

1. May be used for in vitro MATN3 mediated osteoblast differentiation pathway regulation study for cartilage formation with this protein either as soluble factor or as coating matrix protein.2. May be used for protein-protein interaction mapping.3. Potential biomarker protein for clinical monitoring NK cell function in vitro.4. As immunogen for specific antibody production.

**Storage**

Keep at -80centigrade for long term storage. Product is stable at 4 centigrade for at least 30 days.

## GENE INFORMATION

**Gene Name** [MATN3 matrilin 3 \[ Homo sapiens \]](#)

**Official Symbol** [MATN3](#)

**Synonyms** MATN3; matrilin 3; matrilin-3; EDM5; HOA; OS2; DIPOA; OADIP;

**Gene ID** [4148](#)

**mRNA Refseq** [NM\\_002381](#)

**Protein Refseq** [NP\\_002372](#)

**MIM** [602109](#)

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|----------------------------|------------------------------------------------------------------------------------|
| <b>UniProt ID</b>          | O15232                                                                             |
| <b>Chromosome Location</b> | 2p24-p23                                                                           |
| <b>Function</b>            | calcium ion binding; extracellular matrix structural constituent; protein binding; |

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