

Recombinant Human MATN3 protein, T7/His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	29-486 a.a.
Description	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.
Form	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.
AA Sequence	MASMTGGGQMGRGHHHHHHENLYFQGGEFGSDPVARPGFRRLETRGPGGSPGR RPSAAPDGAPASGTSEPGRAR GAGVCKSRPLDLVFIIDSSRSVRPLEFTKVKTFFVS RIIDTLDIGPADTRVAVVNYASTVKIEFQLQAYTDKQSLK QAVGRITPLSTGTMSGGLAI QTAMDEAFTVEAGAREPSSNIPKVAIIVTDGRPQDQVNEVAARAQASGIELYAVGV D RADMASLKMMASEPLEEHVFYVETYGVIEKLSSRFQETFCALDPCVLGTHQCQHVCI SDGEGKHHCECSQGYTL NADKKTCSALDRCALNTHGCEHICVNDRSGSYHCECYE

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GYTLNEDRKTCSAQDKCALGTHGCQHICVNDRTGSHH CECYEGYTLNADKKTCSV
RDKCALGSHGCQHICVSDGAASYHCDYPGYTLNEDKKTCSATEEARRLVSTEDAC
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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UniProt ID	O15232
Chromosome Location	2p24-p23
Function	calcium ion binding; extracellular matrix structural constituent; protein binding;

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