Active Recombinant Human Matrilin 3, His-tagged

Cat. No. MATN3-5685H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MATN3protein was expressed in Murine myeloma cell line with a C-terminal 6-Histag. Asp29-Arg486.
Species	Human
Source	Mammalian Cells
ProteinLength	29-486 a.a.
Description	MATN3 is a 50-60 kDaextracellular matrix protein that belongs to the superfamily of vonWillebrand Factor A containing proteins. It is primarily expressed incartilage and functions as a bridging component between proteins of thecollagenous matrix. The human MATN3 cDNA encodes a 486 amino acid (aa)precursor with a 28 aa signal sequence, an N-terminal VWA domain, four tandemEGF-like repeats, and a C-terminal coiled coil domain. The Matrilins differin the number of VWA domains and EGF-like repeats they contain. Human MATN3 shares82% aa sequence identity with mouse MATN3.
Form	Lyophilized from a0.2 μm filtered solution in PBS.
N-terminalSequence	Asp29
Molecular Weight	50.6 kDa
Activity	Measuredby its binding ability in a functional ELISA. Immobilized rhCOMP at 2

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	μg/mL(100 μL/well) can bind rhMATN3 with alinear range of 1.5-100 ng/mL.
Endotoxin Level	<1.0 EUper 1 μg of the protein by the LAL method.
SDS-PAGE	57 kDa,reducing conditions.
Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100μg/mL in sterile PBS
Storage	Use amanual defrost freezer and avoid repeated freeze-thaw cycles. 12 months fromdate of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterileconditions after reconstitution. 3 months, -20 to -70°C under sterileconditions after reconstitution.

GENE INFORMATION

Gene Name	MATN3 matrilin 3 [Homosapiens]
Official Symbol	MATN3
Synonyms	MATN3; matrilin 3; HOA;OS2; EDM5; DIPOA; OADIP; matrilin-3; OTTHUMP00000200547
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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