

Recombinant Human MMP-3 Protein

Catalog No.: RP00220LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	4314	P08254

Tags

C-His

Synonyms

CHDS6; MMP-3; SL-1; STMY; STMY1; STR1;MMP3;MMP-3;SL-1;STMY;STMY1;STR1

Product Information

Source	Purification
HEK293 cells	> 92% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Supplied as a 0.22 μm filtered solution in 20mM Tris,150mM NaCl,0.05% Brij-35 (w/v),10% Glycerol, pH 7.5.Contact us for customized product form or formulation.

Reconstitution

Background

Matrix metalloproteinase 3 (abbreviated as MMP3) is also known as stromelysin 1 and progelatinase.MMP3 is a member of the matrix metalloproteinase (MMP) family whose members are involved in involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation.

Basic Information

Description

Recombinant Human MMP-3 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Tyr18-Cys477) of human MMP-3 (Accession #NP_002413.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The specific activity is >515 pmol/min/μg.

Storage

This product is stable at ≤ -70° C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze/thaw cycles.

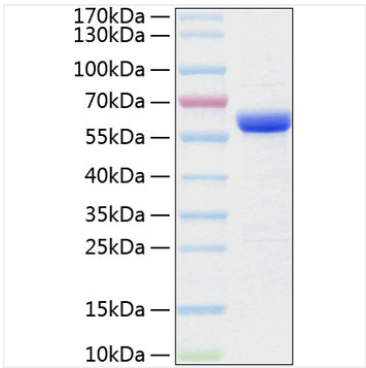
Contact

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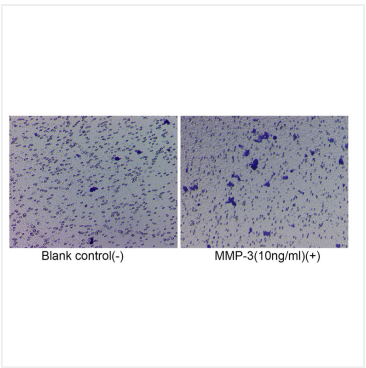
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Validation Data



Active Recombinant Human MMP-3 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 56-60 kDa.



Recombinant Human MMP-3 induces cell migration of the PC-3 cells. 10 ng/mL of Recombinant Human MMP-3 can effectively induce PC-3 cells migration.