

Recombinant Human MMP-3 Protein

Catalog No.: RP00220

Sequence Information

Species **Gene ID**
Human 4314

Swiss Prot **Tags**
P08254 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 ≥ 90 % as
determined by
SDS-PAGE.

Calculated MWObserved MW
53.06 kDa 54–56 kDa

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

Formulation

Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4. Contact us
for customized product form or
formulation.

Reconstitution

Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1–0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

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 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 MMP's 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.

Activity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH₂. The specific activity is >500 pmol/min/μg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

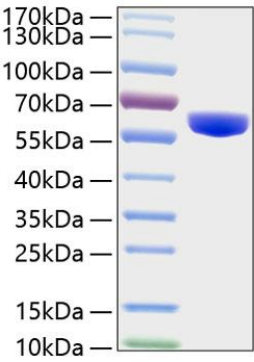
Contact

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Validation Data



Recombinant Human MMP-3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.