Recombinant Human MMP-1 Protein

Catalog No.: RP00211

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Sequence Information

Species
Human

Gene ID
4312

Swiss Prot
P03956

Tags
C-His

Synonyms
MMP1,CLG,CLGN

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
51.84 kDa

Observed MW
55-60 kDa

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

Formulation
Lyophilized from a 0.22 μm filtered solution of 25mM MES、10mM CaCl2、150mM NaCl、0.05% Brij、pH 5.5.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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

MMP1, also known as MMP-1, contains 4 hemopexin-like domains and is a member of the matrix metalloproteinase (MMP) family. Matrix metalloproteases, also called matrixins, are zinc-dependent endopeptidases that are the major proteases involved in ECM degradation. MMPs 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. MMP1 is expressed by fibroblasts, keratinocytes, endothelial cells, monocytes and macrophages.Mutations of MMP1 are associated with chronic obstructive pulmonary disease (COPD).

Basic Information

Description
Recombinant Human MMP1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe20-Asn469) of human MMP1 (Accession #NP_002412.1) fused with a 6×His tag at the C-terminus.

Activity
1.Measured in a cell migration assay using A549 cells. 1 ng/mL of Recombinant Human MMP-1 can effectively induce A549 cells migration.
2.Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH2. The specific activity is >997 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℃

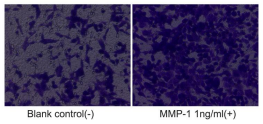
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

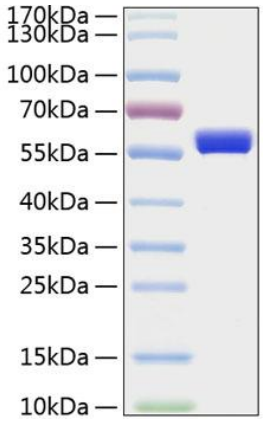
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Validation Data



Recombinant Human MMP-1 induces cell migration of the A549 cells. 1 ng/mL of Recombinant Human MMP-1 can effectively induce A549 cells migration.



Recombinant Human MMP-1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.