

Human MMP-1/MMP1 (His Tag) recombinant protein



Catalog Number: 500009

General Information

Gene Name Synonym

Fibroblast collagenase; Matrix metalloproteinase-1; 22 kDa interstitial collagenase; 27 kDa interstitial collagenase

Protein Construction

A DNA sequence encoding the pro form of human MMP1 enzyme (NP_002412.1) precursor (Met 1-Asn 469) was expressed with a C-terminal polyhistidine tag.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH₂, R&D System, Cat#ES010. The specific activity is >70 pmoles/min/μg.

Purity

> 96 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Phe 20

Molecular Mass

The secreted recombinant human MMP1 comprises 461 amino acids migrates as an approximately 50-55 kDa band as estimated in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile 25mM MES, 10mM CaCl₂, 150mM NaCl, 0.05% Brij 35, pH 5.5
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

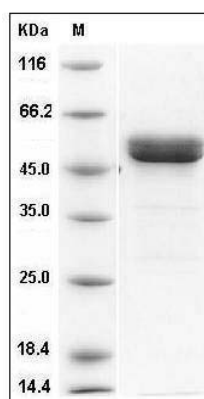
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human MMP1 Protein (His Tag) SDS-PAGE