

# Human MMP 1 Recombinant Protein



RPPB1950

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## Product Information    Protein Information

**Product SKU:**

RPPB1950

**Accession:**

P03956

**Host:**

HEK293 cells.

**Protein description:**

MMP-1 Human Recombinant produced in HEK293 cells is a proform of the Human MMP1 (Met1-Asn469) and fused with a polyhistidine tag at the C-terminus, having an Mw of 52kDa. MMP-1 is purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered colorless solution.

**Synonyms:**

Interstitial collagenase, Fibroblast collagenase, Matrix metalloproteinase-1, MMP-1, MMP1, CLG, CLGN.

**Formulation:**

The MMP-1 is supplied as a 0.2µm filtered solution in MES, NaCl, Glycerol and Brij35.

**Purity:**

Greater than 95% as determined by SDS-PAGE.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

**Biological Activity:**

The activity was measured by its ability to cleave fluorogenic peptide substrate, Mca-KPLGL-Dpa-AR-NH<sub>2</sub>. The specific activity is > 400 pmoles/min/µg. Recombinant Human MMP-1 protein pro form needs to be activated with p-aminophenylmercuric acetate (APMA). Activation Protocol: 1. Dilute MMP1 to 50µg/ml in the Assay Buffer: 50mM Tris, 10mM CaCl<sub>2</sub>, 150mM NaCl, 0.05% (w/v) and Brij 35, pH 7.5. 2. Activate MMP1 by adding APMA to a final concentration of 1mM. (Sigma, Catalog # A9563) and 100mM stock in DMSO. 3. Incubate at 37°C for 2 hours.