

Human MMP-2 Recombinant Protein



RPPB1955

Product Information Protein Information

Product SKU:

RPPB1955

Accession:

P08253

Host:

HEK293 cells.

Protein description:

MMP-2 Human Recombinant produced in HEK293 cells is a proform of the Human MMP-2 (Ala30-Cys660) and fused with a ployhistide tag at the C-terminus, having an Mw of 71kDa. MMP-2 is purified by proprietary chromatographic techniques.

Appearance:

The MMP-2 is supplied as a sterile Filtered colorless solution.

Synonyms:

72 kDa type IV collagenase, 72 kDa gelatinase, Gelatinase A, Matrix metalloproteinase-2, MMP-2, TBE-1, MMP2, CLG4A, CLG4, MONA, MMP-II.

Formulation:

The MMP-2 is supplied as a 0.2µm filtered solution in 20mM Tris-HCl, 150mM NaCl and 0.05% Brij 35, pH 7.4.

Purity:

Greater than 95% as determined by SDS-PAGE.

Stability:

Store MMP-2 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-PLGL-Dpa-AR-NH₂ (RND, Catalog # ES001). The specific activity is > 1,000 pmoles/min/µg. Recombinant Human MMP-2 protein pro form needs to be activated with p-aminophenylmercuric acetate (APMA). Activation Protocol: 1. Dilute MMP2 to 100µg/ml in the Assay Buffer: 50mM Tris, 10mM CaCl₂, 150mM NaCl, 0.05% (w/v) and Brij 35, pH 7.5. 2. Activate MMP2 by adding APMA to a final concentration of 1mM. (Sigma, Catalog # A9563) and 100mM stock in DMSO. 3. Incubate at 37°C for 1 hour.