

Human MMP 3 Recombinant Protein



RPPB5819

Product Information Protein Information

Product SKU:

RPPB5819

Accession:

P08254

Host:

HEK293 cells.

Protein description:

MMP-3 Human Recombinant produced in HEK293 cells is a proform of the Human MMP3 [Tyr18-Cys477 (Lys45Glu)] and fused with a polyhistidine tag at the C-terminus, having an Mw of 52kDa. MMP-3 is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered colorless solution.

Synonyms:

Stromelysin-1, EC 3.4.24.17, Matrix metalloproteinase-3, MMP-3, Transin-1, SL-1, STMY, STR1, STMY1, MGC126102, MGC126103, MGC126104.

Formulation:

The MMP-3 is supplied as a 0.2µm filtered solution in 20mM Tris-HCl, 150mM NaCl and 0.05% Brij35, pH 7.5.

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 the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH₂. The specific activity is > 150 pmoles/min/µg. Recombinant Human MMP-3 protein pro form needs to be activated with Chymotrypsin. Activation Protocol: 1. Dilute MMP3 to 20µg/ml in the Assay Buffer: 50mM Tris, 10mM CaCl₂, 150mM NaCl, 0.05% (w/v) and Brij 35, pH 7.5. 2. Activate MMP3 by adding Chymotrypsin (Sigma, Catalog#C-3142, 1mg/ml stock in 1mM HCl) to a final concentration of 5µg/ml. 3. Incubate at 37°C for 30 minutes. 4. Stop activation with 2mM PMSF. Pre-warm the PMSF to 37°C prior to adding to sample.