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Recombinant Human MMP-10 Protein

Catalog No.: RP01969 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	4319	P09238

Tags
C-6His

Synonyms
MMP10; STMY2;Stromelysin-2; SL-2; EC:3.4.24.22; Matrix metalloproteinase-10; MMP-10; Transin-2

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
53.1 KDa	45-60,60-65 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method

Formulation
Lyophilized from a 0.2 μm filtered solution of 150 mM NaCl, 5 mM CaCl2, 50 mM Tris, pH 7.5.

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.

Contact

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Background

Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-10 degrades a broad range of substrates including gelatin, collagen types III, IV and V, fibronectin, aggrecan, and pig cartilage proteoglycan. MMP-10 can activate other MMPs such as MMP-1 and MMP-8. MMP-10 is expressed in keratinocytes, T cells, menstrual endometrium and a few tumor samples. Structurally, MMP-10 may be divided into four distinct domains: a pro-domain which is cleaved upon activation, a catalytic domain containing the zinc binding site; a short linker region, and a carboxyl terminal hemopexin-like domain.

Basic Information

Description
Recombinant Human MMP-10 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Tyr18-Cys476) of Human MMP-10 (Accession #NP_002416.1) fused with His at the C-terminus.

Bio-Activity
Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2 (Catalog # ES002). The specific activity is >457 pmol/min/μg, as measured under the described conditions.

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

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

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Validation Data

Recombinant Human MMP-10 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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