Active Recombinant Human MMP10 Protein

Cat. No. MMP10-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MMP10 Protein was expressed in mouse myeloma cell line NS0
Species	Human
Source	NS0
Description	This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. The encoded preproprotein is proteolytically processed to generate the mature protease. This secreted protease breaks down fibronectin, laminin, elastin, proteoglycan core protein, gelatins, and several types of collagen. The gene is part of a cluster of MMP genes on chromosome 11.
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The specific activity is >190 pmol/min/μg, as measured under the described conditions.
Molecular Mass	52 kDa (pro) & 43 kDa (active)
N-terminal Sequence Analysis	Tyr18
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. 3 months, -20 to -70 °C under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in MES, NaCl, CaCl2 and Brij-35.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
SDS-PAGE	58 kDa and 48 kDa, reducing conditions
Structure / Form	Pro and active forms

GENE INFORMATION

Gene Name	MMP10 matrix metallopeptidase 10 [Homo sapiens (human)]
Official Symbol	MMP10
Synonyms	EC 3.4.24; EC 3.4.24.22; matrix metallopeptidase 10 (stromelysin 2); matrix metalloprotease 10; matrix metalloproteinase 10 (stromelysin 2); Matrix metalloproteinase-10; MMP10; MMP-10; SL-2; STMY2stromelysin-2; Stromelysin 2; transin 2; transin-2
Gene ID	4319
mRNA Refseq	NM_002425.3
Protein Refseq	NP_002416.1

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MIM	185260
UniProt ID	P09238

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