Active Native Human MMP8 Protein

Cat. No. MMP8-1656H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human MMP8 protein was isolated from stimulated human neutrophil granulocytes (buffy coat)
Species	Human
Source	Neutrophil granulocytes
Description	This gene encodes a member of the matrix metalloproteinase (MMP) family of proteins. These proteins are involved in the breakdown of extracellular matrix in embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Proteolysis at different sites on this protein results in multiple active forms of the enzyme with distinct N-termini. This protein functions in the degradation of type I, II and III collagens. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.
Form	Liquid
Bio-activity	≥60 mU/mg protein. One unit is defined as the amount of enzyme that hydrolyzes 1 μmol 2,4-dinitrophenyl-Pro-Gln-Gly-Ile-Ala-Gly-Gln-D-Arg-OH per min. at 37 centigrade, pH 7.0.
Molecular Mass	~85 kDa
Purity	≥90% by SDS-PAGE

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

Stability	Stable for 1 week when stored at +4 centigrade and for serveral weeks when stored at -20 centigrade.
Storage	At -80 centigrade
Concentration	100 μg/ml
Storage Buffer	In 50mM TRIS-HCl, pH 7.0, containing 200mM NaCl, 5mM CaCl2, 1μM ZnCl2, 0.05% BRIJ 35, and 0.05% sodium azide.
Handling	Avoid freeze/thaw cycles.
Shipping	Shipped on Dry Ice

GENE INFORMATION

Gene Name	MMP8 matrix metallopeptidase 8 [Homo sapiens (human)]
Official Symbol	MMP8
Synonyms	MMP8; matrix metallopeptidase 8; 3.4.24.34; HNC; CLG1; MMP-8; PMNL-CL; neutrophil collagenase; PMN leukocyte collagenase; PMNL collagenase; collagenase 2; matrix metalloproteinase 8 (neutrophil collagenase); matrix metalloproteinase-8; EC 3.4.24.34
Gene ID	4317
mRNA Refseq	NM_002424
Protein Refseq	NP_002415

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

MIM	120355
UniProt ID	P22894

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