

MMP-8 Active Protein | MMP8 active protein

MMP-8 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257855

HOST
HEK293 Cells

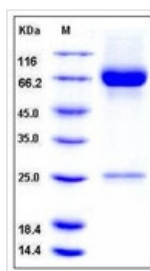
PRODUCT SYNONYMS

MMP-8; MMP-8 Protein; Human; Recombinant (His Tag); Human MMP8/CLG1 Protein (His Tag); CLG1 Protein; HNC Protein; PMNL-CL Protein; matrix metalloproteinase 8; MMP8 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 50mM Tris, 10mM CaCl ₂ , 150mM NaCl, pH7.5, 5% Trehalose, 5% Mannitol, 0.01% Tween-80.
Sequence	Met1-Gly46 7
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Phe 21
Tag	C-His
Protein Construction	A DNA sequence encoding the human MMP8 (NP_002415.1)(Met 1-Gly 467) was expressed, fused with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH ₂ . The specific activity is >250pmoles/min/ug. (Activation description: The proenzyme needs to be activated by APMA for an activated form)
Preparation and Storage	Storage: Store it under sterile conditions at -20 degree C to -80 degree C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Reconstitution: It is recommended that sterile water (80ul) be added to the vial to prepare a stock solution of 0.25mg/ml. Concentration is measured by UV.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MMP8 active protein	Background: Matrix metalloproteinases (MMPs) are a family of zinc-dependent endopeptidases that degrade components of the extracellular matrix (ECM) and play essential roles in various physiological processes such as morphogenesis, differentiation, angiogenesis, and tissue remodeling, as well as pathological processes including inflammation, arthritis, cardiovascular diseases, pulmonary diseases, and tumor invasion. Neutrophil collagenase, also known as Matrix metalloproteinase-8, MMP-8, and CLG1, is a member of the peptidase M1A family. MMP-8 may affect the metastatic behavior of breast cancer cells through protection against lymph node metastasis, underlining the importance of anti-target identification in drug development. MMP-8 in the tumor may have a protective effect against lymph node metastasis. MMP-8 may affect the metastatic behavior of breast cancer cells through protection against lymph node metastasis, underlining the importance of anti-target identification in drug development. MMP-8 participates in wound repair by contributing to the resolution of inflammation and open the possibility to develop new strategies for treating wound healing defects.
References	Hasty K.A., et al.,(1990), Human neutrophil collagenase. A distinct gene product with homology to other matrix metalloproteinases. J. Biol. Chem. 265:11421-11424.Blaeser J., et al., (1991), Mercurial activation of human polymorphonuclear leucocyte procollagenase.Eur. J. Biochem. 202:1223-1230.Blaeser J., et al.,(1991), Mercurial activation of human polymorphonuclear leucocyte procollagenase. Eur. J. Biochem. 202:1223-1230.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505221
NCBI GeneID	4317
NCBI Accession #	NP_002415.1
NCBI GenBank Nucleotide #	NM_002424.2
UniProt Accession #	P22894; Q45F99
Molecular Weight	The recombinant human MMP8 consists of 458 amino acids after removal of the signal peptide and has a predicted molecular mass of 52.6kDa. In SDS-PAGE under reducing conditions,the apparent molecular mass of rhMMP8 is approximately 65-75kDa due to glycosyl
NCBI Official Full Name	neutrophil collagenase preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 8 (neutrophil collagenase)
NCBI Official Symbol	MMP8
NCBI Official Synonym Symbols	HNC; CLG1; MMP-8; PMNL-CL
NCBI Protein Information	neutrophil collagenase; PMNL collagenase; matrix metalloproteinase-8; matrix metalloproteinase 8 (neutrophil collagenase)
UniProt Protein Name	Neutrophil collagenase
UniProt Gene Name	MMP8
UniProt Synonym Gene Names	CLG1; MMP-8; PMNL-CL
UniProt Entry Name	MMP8_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.