

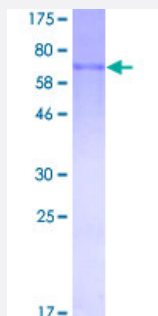
Full-Length

MMP8 (Human) Recombinant Protein (P01)

Catalog # H00004317-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human MMP8 full-length ORF (NP_002415.1, 1 a.a. - 467 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MFSLKTLPFLLLLHVQISKAPVSSKEKNTKTVQDYLEKFYQLPSNQYQSTRKNGTNVIVEKLKEM
QRFFGLNVTGKPNEETLDMMKKPRCGVPDGGFMLTPGNPKWERTNLTYRIRNYTPQLSEAEVE
RAIKDAFELWSVASPLIFTRISQGEADINAFYQRDHGDNSPFDGPNGLAHAFQPGQGIGGDAHFD
AEETWTNTSANYNLFLVAAHEFGHSLGLAHSSDPGALMYPNYAFRETSNYSLPQDDIDGIQAIYGL
SSNPIQPTGTPSTPKPCDPSLTFDAITTLRGEILFFKDRYFWRRHPLQQRVEMNFISLFWPSLPTGIQ
AAYEDFDRDLIFLFKGNQYWALSGYDILQGYPKDISNYGFPSSVQAIDAAVFYRSKTYFFVNDQFW
RYDNQRQFMPEGYPKSISGAFFPGIESKVDVAFQQEHFFHVSFSGPRYYAFDLIAQRVTRVARGNKNW
LNCRYG

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

79.8

Interspecies Antigen Sequence

Mouse (74); Rat (72)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MMP8

Entrez GeneID	4317
GeneBank Accession#	NM_002424.1
Protein Accession#	NP_002415.1
Gene Name	MMP8
Gene Alias	CLG1, HNC, PMNL-CL
Gene Description	matrix metalloproteinase 8 (neutrophil collagenase)
Omim ID	120355
Gene Ontology	Hyperlink

Gene Summary	Proteins of the matrix metalloproteinase (MMP) 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. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. However, the enzyme encoded by this gene is stored in secondary granules within neutrophils and is activated by autolytic cleavage. Its function is degradation of type I, II and III collagens. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq]
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Other Designations

PMNL collagenase|matrix metalloproteinase 8|matrix metalloproteinase 8 (neutrophil collagenase)
)|neutrophil collagenase

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiectasis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Fetal Diseases](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [Infection](#)
- [Inflammation](#)
- [Intervertebral Disk Displacement](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)

- [Malignant melanoma](#)
- [Melanoma](#)
- [Mouth Neoplasms](#)
- [Musculoskeletal Diseases](#)
- [Neoplasm Invasiveness](#)
- [Obstetric Labor](#)
- [Oral Submucous Fibrosis](#)
- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Urinary Bladder Neoplasms](#)