

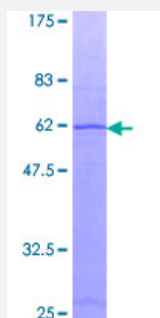
Full-Length

MMP7 (Human) Recombinant Protein (P01)

Catalog # H00004316-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human MMP7 full-length ORF (NP_002414.1, 1 a.a. - 267 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MRLTVLCVCLLPGLALPLPQEAGGMSELQWEQAQDYLRFYLYDSETKNANSLEAKLKEMQK
FFGLPITGMLNSRVIEIMQKPRCGVPDVAEYSLFPNSPKWTSKVVTYRVSYTRDLPHTVDRLVSK
ALNMWGKEIPLHFRKVVGWGTADIMIGFARGAHGDSYPFDGPGNTLAHAFAPGTGLGGDAHFD
ERWTDGSSSLGINFLYAATHELGHSLGMGHSSDPNAVVMYPTYGNGDPQNFKLSQDDIKGIQKLYGK
RSNSRKK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

56.1

Interspecies Antigen Sequence

Mouse (70); Rat (70)

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 — MMP7

Entrez GeneID[4316](#)**GeneBank Accession#**[NM_002423.3](#)**Protein Accession#**[NP_002414.1](#)**Gene Name**

MMP7

Gene Alias

MMP-7, MPSL1, PUMP-1

Gene Description

matrix metalloproteinase 7 (matrilysin, uterine)

Omim ID[178990](#)**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. The enzyme encoded by this gene degrades proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal protein domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq]

Other Designations

matrin|matrix metalloproteinase 7|matrix metalloproteinase 7 (matrilysin, uterine)|uterine matrilysin

Publication Reference

- [Identification of putative immunologic targets for colon cancer prevention based on conserved gene expression from pre-invasive to malignant lesions.](#)

Broussard EK, Kim R, Wiley JC, Marquez JP, Annis JE, Pritchard D, Disis ML.

Cancer Prevention Research (Philadelphia, Pa.) 2013 Jul; 6(7):666.

Application: WB, WB-Tr, Human, Serum, HCT116, LoVo, RKO, SW48, FET, SW480 cells

Pathway

- [Wnt signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Adenomatous Polyps](#)
- [Arthritis](#)
- [Astrocytoma](#)
- [Atherosclerosis](#)
- [Atrophy](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis Obliterans](#)
- [Carcinoma](#)
- [Chorioamnionitis](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)

- [Disease Progression](#)
- [Duodenal Ulcer](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Fetal Membranes](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Heart Neoplasms](#)
- [Helicobacter Infections](#)
- [Hepatitis C](#)
- [Hypercholesterolemia](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Multiple Sclerosis](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)

- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Stomach Neoplasms](#)
- [Stomach Ulcer](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)