

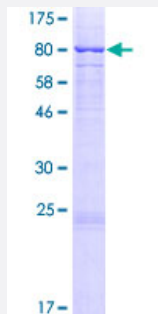
Full-Length

MMP14 (Human) Recombinant Protein (P01)

Catalog # H00004323-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MMP14 full-length ORF (AAH64803.1, 1 a.a. - 582 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSPAPRPSRCLLLPLLTLGTALASLGSAQSSSFSP EAWLQQYGYLPPGDLRHTHTQRSPQSLSAAI
AAMQKFYGLQVTGKADADTMKAMRRPRCGVPDKFGAEIKANVRRKRYAIQGLKWQHNEITFCIQN
YTPKVGEYATYEAIRKAFRVWESATPLRFREVPYAYIREGHEKQADIMIFFAEGFHGDSTPFDGEG
GFLAHAYFPGPNIGGDTHFDSAEPWTVRNE DLNGNDIFLVAVHELGHALGLEHSSDPSAIMAPFY
QWMDTENFVLPDDDDRRGIQQLYGGESGFPTKMPPQPRTTSRPSVPDKPKNPTYGPNICDGNFDT
VAMLRGEMFVFKERWFWVRNQNQVMDGYPMPIGQFWRGLPASINTAYERKDGFVFFKGDKH
WVFDEASLEPGYPKHIKELGRGLPTDKIDAALFWMPNGKTYFFRGNKYYRFNEELRAVDSEYPKNI
KVWEGIPESPRGSFMGSDEVFTYFYKGNKYWKFNQKLKVEPGYPKSALRDWMGCPSSGGRPD
EGTEEEETEVIIEVDEEGGAVSAAAVVLPVLLLLLVAVGLAVFFRRHGTTPRRLLYCQRSLLDKV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

92.3

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 — MMP14

Entrez GeneID[4323](#)**GeneBank Accession#**[BC064803.1](#)**Protein Accession#**[AAH64803.1](#)**Gene Name**

MMP14

Gene Alias

MMP-X1, MT1-MMP, MTMMP1

Gene Description

matrix metalloproteinase 14 (membrane-inserted)

Omim ID[600754](#)**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 protein encoded by this gene is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. This protein activates MMP2 protein, and this activity may be involved in tumor invasion. [provided by RefSeq]

Other Designations

matrix metalloproteinase 14|matrix metalloproteinase 14 (membrane-inserted)|membrane type 1 metalloproteinase|membrane-type matrix metalloproteinase 1|membrane-type-1 matrix metalloproteinase

Pathway

- [GnRH signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Bronchopulmonary Dysplasia](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulosclerosis](#)
- [Hepatitis C](#)
- [Liver Cirrhosis](#)
- [Nephrosis](#)
- [Obstetric Labor](#)
- [Ovarian Neoplasms](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)

- [Pulmonary Disease](#)
- [Scleroderma](#)