





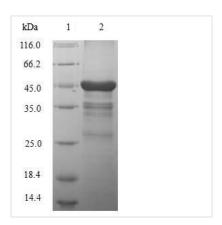
Recombinant Human Macrophage metalloelastase (MMP12)

| Product Code | CSB-EP014659HU |
|---------------------|---|
| Relevance | May be involved in tissue injury and rodeling. Has significant elastolytic activity. Can accept large and small amino acids at the P1' site, but has a preference for leucine. Aromatic or hydrophobic residues are preferred at the P1 site, with small hydrophobic residues (preferably alanine) occupying P3. |
| Abbreviation | Recombinant Human MMP12 protein |
| Storage | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| Uniprot No. | P39900 |
| Alias | Macrophage elastase ;ME ;hMEMatrix metalloproteinase-12 ;MMP-12 |
| Product Type | Recombinant Protein |
| Immunogen Species | Homo sapiens (Human) |
| Purity | Greater than 90% as determined by SDS-PAGE. |
| Sequence | GPVWRKHYITYRINNYTPDMNREDVDYAIRKAFQVWSNVTPLKFSKINTGMAD ILVVFARGAHGDFHAFDGKGGILAHAFGPGSGIGGDAHFDEDEFWTTHSGGT NLFLTAVHEIGHSLGLGHSSDPKAVMFPTYKYVDINTFRLSADDIRGIQSLYGD PKENQRLPNPDNSEPALCDPNLSFDAVTTVGNKIFFFKDRFFWLKVSERPKTS VNLISSLWPTLPSGIEAAYEIEARNQVFLFKDDKYWLISNLRPEPNYPKSIHSFG FPNFVKKIDAAVFNPRFYRTYFFVDNQYWRYDERRQMMDPGYPKLITKNFQGI GPKIDAVFYSKNKYYYFFQGSNQFEYDFLLQRITKTLKSNSWFGC |
| Research Area | Cancer |
| Source | E.coli |
| Target Names | MMP12 |
| Expression Region | 106-470aa |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Tag Info | N-terminal 6xHis-tagged |
| Mol. Weight | 46.1kDa |
| Protein Length | Full Length of Mature Protein |
| Image | |
| | |

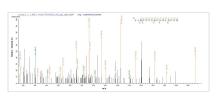
CUSABIO TECHNOLOGY LLC



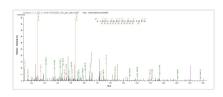




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP014659HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) MMP12.



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Description

Boost your cancer research with our premium Recombinant Human MMP12 protein. Macrophage metalloelastase (MMP12), also known as MME or macrophage elastase, is a matrix metalloproteinase that plays a crucial role in extracellular matrix remodeling, tissue repair, and immune response. With implications in the progression of various cancers, MMP12 is a key target for understanding tumor invasion, angiogenesis, and metastasis.

Our Recombinant Human MMP12 protein has been meticulously produced in E. coli to guarantee optimal quality and performance. The protein sequence represents the full length of the mature protein (106-470 amino acids), ensuring that the native structure and functionality are retained. The N-terminal 6xHis-tag enables efficient purification while maintaining the integrity of the protein's activity. With a purity greater than 90% as determined by SDS-PAGE, our Recombinant Human MMP12 protein is the ideal choice for your research in the field of cancer biology.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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