

MMP-12 Protein, Human, Recombinant (His)

General Information

Synonyms:	MME;Macrophage elastase (ME;hME);HME;Matrix metalloproteinase-12 (MMP-12);MMP12; Macrophage metalloelastase
Protein Construction:	106-470 aa
Species:	Human
Expression Host:	E. coli
Accession:	P39900
Molecular Weight:	46.1 kDa (predicted)
AA Sequence:	GPVWRKHYYIRINNYTPDMNREDVDYAIRKAFQVWSNVTPFKSKINTGMADILVVFARGAHGDFHAFDGGK GGILAHAFGPGSGIGGDAHFDEDEFWTTTHSGGTNLFLTAVHEIGHSLGLGHSSDPKAVMFPTYKYVDINTFRL SADDIRGIQSLYGDPKENQRLPNPDNSEPALCDPNLSFDAVTTVGNKIFFFKDRFFWLKVSRPKTSVNLISL WPTLPSGIEAAYEIEARNQVFLFKDDKYWLISNLRPEPNYPKSIHSFGFPNFVKIDAAVFNPRFYRTYFFVDN QYWRYDERRQMMDPGYPKLITKNFQGIGPKIDAVFYSKNKYYYYFFQGSNQFEYDFLLQRITKTLKSNSWFGC

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

May be involved in tissue injury and remodeling. 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

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P1 site, with small hydrophobic residues (preferably alanine) occupying P3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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