

MMP-12 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Mme;Mmp12;MMP-12;Mmel;Matrix metalloproteinase-12;Macrophage metalloelastase
Protein Construction:	Ala29-Cys473. The proenzyme needs to be activated by APMA for an activated form.
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P34960
Molecular Weight:	64 KDa (reducing condition)
AA Sequence:	Ala29-Cys473

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:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM PB, 500 mM NaCl, 0.01% Tween 80, 1 mM EDTA, 50% Glycerol, pH6.0.

Preparation and Storage

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:

Proteins are shipped with blue ice.

Protein Background

Matrix metalloproteinase-12 (MMP12) is a secreted protein. It contains 4 hemopexin repeats and belongs to the peptidase M10A family. MMP12 may be involved in tissue injury and remodeling and have significant elastolytic activity. It 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.

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