

## MMP-13 Protein, Mouse, Recombinant (His)

### General Information

Synonyms: Collagenase 3;Matrix metalloproteinase-13 (MMP-13);Mmp13

Protein Construction: 105-472 aa

Species: Mouse

Expression Host: E. coli

Accession: P33435

Molecular Weight: 46.5 kDa (predicted)

AA Sequence: YNVFPRTLKWSQTNLTyrivnytpdmsHSEVEKAFrkafkvWSDVtPLNFTRIYDGTADIMISFGTKEHGDFY  
PFDGPSGLLAHAfPPGPNYGGDAHFDDDETWTSSSKGYNLFIVAaHELGHSLGLDHSKDPGALMFPIYYTGTG  
KSHFMLPDDDDVQGIQFLYGPgDEDPNPKHPKTPEKCDPALSldaITSLRGETMIFKDRFFWRLHPQQVEAELF  
LTKSFWPELpNHVDAAYEHPSRDLMFIFRGRKfWALNGYDILEGYPRKISDLGfPKVKRLSAAVHFENTGKT  
LFFSEnhVWSYDDVNQTMdKDYPRlIEEEfPGIGNKVDaVYEKNGYIYFFNGPIQFEYSIWSNRIVRVMPTNSI  
LWC

### 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

Plays a role in the degradation of extracellular matrix proteins including fibrillar collagen, fibronectin, TNC and ACAN. Cleaves triple helical collagens, including type I, type II and type III collagen, but has the highest activity

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with soluble type II collagen. Can also degrade collagen type IV, type XIV and type X. May also function by activating or degrading key regulatory proteins, such as TGF $\beta$ 1 and CCN2. Plays a role in wound healing, tissue remodeling, cartilage degradation, bone development, bone mineralization and ossification. Required for normal embryonic bone development and ossification. Plays a role in the healing of bone fractures via endochondral ossification. Plays a role in wound healing, probably by a mechanism that involves proteolytic activation of TGF $\beta$ 1 and degradation of CCN2. Plays a role in keratinocyte migration during wound healing. May play a role in cell migration and in tumor cell invasion.

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