

Recombinant Human MMP13 Protein (E103-N274), Tag Free

Cat. No. MMP13-0832H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human MMP2(E103-N274) Protein was expressed in E. coli.

Species Human

Source E.coli

ProteinLength E103-N274

Description

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 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 TGFB1 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 TGFB1 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.

Form Liquid

Endotoxin < 0.01 EU per µg of the protein

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 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|-----------------------|---|
| Purity | 90% |
| Stability | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. |
| Storage | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| Storage Buffer | Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol |
| Shipping | It is shipped out with blue ice. |

GENE INFORMATION

| | |
|------------------------|---|
| Gene Name | MMP13 matrix metalloproteinase 13 (collagenase 3) [Homo sapiens (human)] |
| Official Symbol | MMP13 |
| Synonyms | MMP13; matrix metalloproteinase 13 (collagenase 3); matrix metalloproteinase 13 (collagenase 3); collagenase 3; CLG3; MMP-13; MANDP1; |
| Gene ID | 4322 |
| mRNA Refseq | NM_002427 |
| Protein Refseq | NP_002418 |
| MIM | 600108 |
| UniProt ID | P45452 |

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