

# Recombinant Human MMP-13

**Cat. No.** MMP13-42H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full-length human proMMP-13 (EC 3.4.24.--) expressed in Spodoptera frugiperda Sf9. Swiss Prot P45452                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | S.frugiperda                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | 50 mM Tris pH 8.0, 800 mM NaCl, 5 mM CaCl <sub>2</sub> , 1 μM ZnCl <sub>2</sub> , 0.01% Brij-35.                                                                                                                                                                                                                                           |
| <b>Purity</b>           | >95%, homogenous by SDS-PAGE                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>          | The enzyme can be kept at -80°C for many month. Repeated freezing and thawing must be avoided. Dilute and activate only the amount of enzyme you need, do not store enzyme in reaction buffer. The active 48 kDa enzyme undergoes very fast changes into a 30 kDa form which still retains enzymatic characteristics of the 48 kDa enzyme. |

## GENE INFORMATION

|                        |                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MMP13 matrix metalloproteinase 13 (collagenase 3) [ Homo sapiens ]                                                                    |
| <b>Official Symbol</b> | MMP13                                                                                                                                 |
| <b>Synonyms</b>        | MMP13; matrix metalloproteinase 13 (collagenase 3); matrix metalloproteinase 13 (collagenase 3); collagenase 3; CLG3; MMP-13; MANDP1; |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>             | 4322                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_002427                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_002418                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 600108                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | P45452                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 11q22.3                                                                                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem; |
| <b>Function</b>            | calcium ion binding; calcium-dependent protein binding; fibronectin binding; low-density lipoprotein particle receptor binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;                                                                                                                        |

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