

## Recombinant Human MMP13 protein, His-tagged

**Cat. No.** MMP13-7853H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human MMP13 protein(100-471 aa), fused with N-terminal His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E. coli                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 100-471 aa                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Form</b>             | The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na <sub>2</sub> HPO <sub>4</sub> , 17 mM NaH <sub>2</sub> PO <sub>4</sub> , 68 mM NaCl, pH 7.4). Prior to lyophilization, 5% (w/v) trehalose and 5% (w/v) mannitol were incorporated as cryoprotective excipients. The protein was eluted with a buffer containing 300 mM imidazole.                                |
| <b>AASequence</b>       | DVGEYNVFPRTLKWSKMNLTYRIVNYTPDMTHSEVEKAFKKAFKVWSDVTPLNFTR<br>LHDGIADIMISFGIKEHGDFYPFDGPSGLLAHAFPPGPNYGGDAHFDDETWTSSSK<br>GYNLFLVAAHEFGHSLGLDHSKDPGALMFPIYTYTGKSHFMLPDDDVQGIQSLYGP<br>GDEDPNPKHPKTPDKCDPSLSLDAITSLRGETMIFKDRFFWRLHPQQVDAELFLT<br>KSFWEPLPNRIDAAAYEHPSHDLIFIFRGRKFWALNGYDILEGYPKKISELGLPKEVKKISA<br>AVHFEDTGKTLFSGNQVWRYDDTNHIMDKDYPRLIEEDFPGIGDKVDVYEKNGYI<br>YFFNGPIQFEYSIWSNRIVRVM PANSILWC |
| <b>Purity</b>           | 85%, by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>          | Store at 2-8°C for 1-2 weeks. Aliquot and store at -20°C to -80°C for up to 3 months,                                                                                                                                                                                                                                                                                                                       |

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reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.

**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

**GENE INFORMATION**

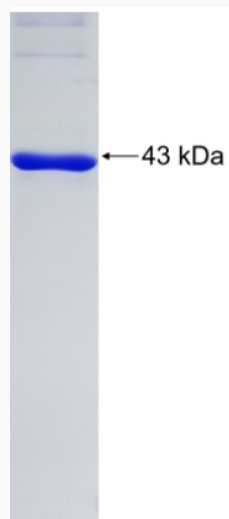
|                        |                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <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; |
| <b>mRNA Refseq</b>     | NM_002427                                                                                                                             |
| <b>Protein Refseq</b>  | NP_002418                                                                                                                             |
| <b>MIM</b>             | 600108                                                                                                                                |
| <b>UniProt ID</b>      | P45452                                                                                                                                |
| <b>Gene ID</b>         | 4322                                                                                                                                  |

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SDS-PAGE



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