

## Recombinant Human PREP, His-tagged

Cat. No. PREP-2378H    Lot. No. (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b>    | Recombinant Human PREP (Leu2-Pro710) fused with N-terminal His tag, was expressed in E. coli.                                                                                                                                                                                                                                                |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>       | 2-710 a.a.                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>         | The protein encoded by this gene is a cytosolic prolyl endopeptidase that cleaves peptide bonds on the C-terminal side of prolyl residues within peptides that are up to approximately 30 amino acids long. Prolyl endopeptidases have been reported to be involved in the maturation and degradation of peptide hormones and neuropeptides. |
| <b>Molecular Mass</b>      | 81.6 kDa                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>                | Liquid                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>              | > 90 % by SDS-PAGE                                                                                                                                                                                                                                                                                                                           |
| <b>Biological activity</b> | Specific Activity: 6 pmol/min/g. Assay condition: 50 mM Tris (pH 7.5), 100 g BSA, 20 $\mu$ M substrate and 500 ng Prolyl Endopeptidase protein at room temperature for 30 min.                                                                                                                                                               |
| <b>Storage buffer</b>      | Preservative: None. Constituents: 30% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.                                                                                                                                                                                                                         |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>         | FuncS; SDS-PAGE                                                                                                                                                                  |
| <b>Storage</b>             | Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.                                                                                                                 |
| <b>OfficialSymbol</b>      | PREP                                                                                                                                                                             |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                  |
| <b>Gene Name</b>           | PREP prolyl endopeptidase [ Homo sapiens ]                                                                                                                                       |
| <b>Synonyms</b>            | prolyl endopeptidase; PE; PEP; MGC16060; PREP; prolyl oligopeptidase; post-proline cleaving enzyme; dJ355L5.1 (prolyl endopeptidase); Post-proline cleaving enzyme; EC 3.4.21.26 |
| <b>Gene ID</b>             | 5550                                                                                                                                                                             |
| <b>mRNA Refseq</b>         | NM_002726                                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_002717                                                                                                                                                                        |
| <b>MIM</b>                 | 600400                                                                                                                                                                           |
| <b>UniProt ID</b>          | P48147                                                                                                                                                                           |
| <b>Chromosome Location</b> | 6q22                                                                                                                                                                             |
| <b>Function</b>            | serine-type endopeptidase activity; serine-type peptidase activity; peptide binding                                                                                              |

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