

## Recombinant Human PEPD Protein, His-tagged

**Cat. No.** PEPD-30835TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human PEPD, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | PEPD also known as Xaa-Pro dipeptidase isoform1. The protein forms a homodimer that hydrolyzes dipeptides or tripeptides with C-terminal proline or hydroxyproline residues. The enzyme serves an important role in the recycling of proline, and may be rate limiting for the production of collagen. Mutations in this gene result in prolidase deficiency, which is characterized by the excretion of large amount of di- and tri-peptides containing proline.  |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 56.9kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | <p>MGSSHHHHHHSSGLVPRGSHMGSMMAAATGPSFWLGNETLKVPLALFALNRQRLCE</p> <p>RLRKNPAVQAGSIVVLQGGEETQRYCTDTGVLFRQESFFHWAFGVTEPGCYGVIDV</p> <p>DTGKSTLFVPRLPASHATWMGKIHSKEHFKEKYAVDDVQYVDEIASVLT SQKPSVLL</p> <p>TLRGVNTDSGSVCREASFDGISKFEVNNTILHPEIVECRVFKTDMELEVLRYTNKISS</p> <p>EAHREVMKAVKVG MKEYELES LFEHYCYSRGGMRHSSYTCICGSGENSAVLHYGH</p> <p>AGAPNDRTIQNGDMCLFDMGGEYYCFASDITCSFPANGKFTADQKAVYEAVLRSSR</p> <p>AVMGAMKPGVWWPDMHRLADRIHLEELAHMGILSGSVDAMVQAHLGAVFMPHGL</p> |

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GHFLGIDVHDVGGYPEGVERIDEPGLRSLRTARHLQPGMVLTVEPGIYFIDHLLDEAL  
ADPARASFLNREVLQRFGRFGGVRIEEDVVVTDSGIELLTCVPRTVEEIEACMAGCD  
KAFTPFSGPK

**Purity** > 90% by SDS-PAGE

**Storage** Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/mL

**Storage Buffer** In Phosphate buffered saline (pH 7.4) containing 10% glycerol, 1mM DTT.

## GENE INFORMATION

**Gene Name** [PEPD peptidase D \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [PEPD](#)

**Synonyms** PEPD; peptidase D; PROLIDASE; xaa-Pro dipeptidase; X-Pro dipeptidase; aminoacyl-L-proline hydrolase; imidodipeptidase; proline dipeptidase; testicular tissue protein Li 138; EC 3.4.13.9

**Gene ID** [5184](#)

**mRNA Refseq** [NM\\_000285](#)

**Protein Refseq** [NP\\_000276](#)

**MIM** [613230](#)

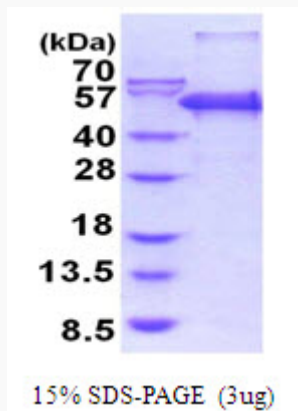
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UniProt ID

P12955

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