# Recombinant Human PEPD Protein, His-tagged

**Cat. No.** PEPD-22H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant human PEPD (1-493aa) protein with His tag was expressed in E.coli. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | This gene encodes a member of the peptidase family. 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. Multiple transcript variants encoding different isoforms have been found for this gene. |
| **Form** | Liquid |
| **Molecular Mass** | 56.9kDa |
| **AA Sequence** | MGSSHHHHHHSSGLVPRGSHMGSMAAATGPSFWLGNETLKVPLALFALNRQRLCE RLRKNPAVQAGSIVVLQGGEETQRYCTDTGVLFRQESFFHWAFGVTEPGCYGVIDV DTGKSTLFVPRLPASHATWMGKIHSKEHFKEKYAVDDVQYVDEIASVLTSQKPSVLL TLRGVNTDSGSVCREASFDGISKFEVNNTILHPEIVECRVFKTDMELEVLRYTNKISS EAHREVMKAVKVGMKEYELESLFEHYCYSRGGMRHSSYTCICGSGENSAVLHYGH AGAPNDRTIQNGDMCLFDMGGEYYCFASDITCSFPANGKFTADQKAVYEAVLRSSR AVMGAMKPGVWWPDMHRLADRIHLEELAHMGILSGSVDAMVQAHLGAVFMPHGL |

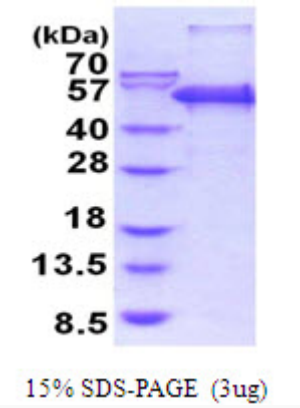
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| | GHFLGIDVHDVGGYPEGVERIDEPGLRSLRTARHLQPGMVLTVEPGIYFIDHLLDEALADPARASFLNREVLQRFRGFGGVRIEEDVVVTDSGIELLTCVPRTVEEIEACMAGCDKAFTPFSGPK |
| **Purity** | > 90% by SDS - PAGE |
| **Storage** | Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 or -70 centigrade. Avoid repeated freezing and thawing cycles. |
| **Concentration** | 0.5 mg/ml (determined by Bradford assay) |
| **Storage Buffer** | In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT |

## GENE INFORMATION

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| **Gene Name** | PEPD |
| **Official Symbol** | PEPD peptidase D [ Homo sapiens (human) ] |
| **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 |
| | <br>15% SDS-PAGE (3ug) |

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