

Recombinant Human PEPD Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human PEPD, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	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.
Form	Liquid
Molecular Mass	56.9kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMGSMMAAATGPSFWLGNETLKVPLALFALNRQRLCE RLRKNPAVQAGSIVVLQGGEETQRYCTDTGVLFRQESFFHWAFGVTEPGCYGVIDV DTGKSTLFVPRLPASHATWMGKIHSKEHFKEKYAVDDVQYVDEIASVLTSQKPSVLL TLRGVNTDSGSVCREASFDGISKFEVNNTILHPEIVECRVFKTDMELEVLRYTNKISS EAHREVMKAVKVGMEKEYELESLEFHYCYSRGGMRHSSYTCICGSGENSAVLHYGH AGAPNDRTIQNGDMCLFDMGGEYYCFASDITCSFPANGKFTADQKAVYEAVLRSSR AVMGAMKPGVWWPDMHRLADRIHLEELAHMGILSGSVDAMVQAHLGAVFMPHGL

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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](#)

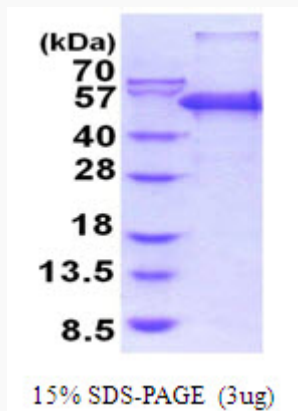
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UniProt ID

P12955

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