

Recombinant Human PEPD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PEPD-6625H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PEPD MS Standard C13 and N15-labeled recombinant protein (NP_000276) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	54.5 kDa
AA Sequence	MAAATGPSFWLGNETLKVPLALFALNRQLCERLRKNPAVQAGSIVVLQGGEETQR YCTDTGVLFRQESFFHWAFGVTEPGCYGVIDVDTGKSTLFVPRLPASHATWMGKIH SKEHFKEKYAVDDVQYVDEIASVLT SQKPSVLLTLRGVNTDSGSVCREASFDGISKF EVNNTILHPEIVECRVFKTDMELEVLRYTNKISSEAHREVMKAVKVG MKEYELES LFE HYCYSRGGMRHSSYTCICGSGENSAVLHYGHAGAPNDRTIQNGDMCLFDMGGEY YCFASDITCSFPANGKFTADQKAVYEAVLRSSRAVMGAMKPGVWWPDMHRLADRI

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HLEELAHMGILSGSVDAMVQAHLGAVFMPHGLGHFLGIDVHDVGGYPEGVERIDEP
GLRSLRTARHLQPGMVLTVEPGIYFIDHLLDEALADPARASFLNREVLQRFRGFGGV
RIEEDVVVTDSGIELLTCVPRTVEEIEACMAGCDKAFTPFSGPKTRTRPLEQKLISEE
DLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol PEPD

Synonyms PEPD; peptidase D; xaa-Pro dipeptidase; prolidase; imidodipeptidase; X-Pro dipeptidase; proline dipeptidase; aminoacyl-L-proline hydrolase; PROLIDASE; MGC10905;

Gene ID 5184

mRNA Refseq NM_000285

Protein Refseq NP_000276

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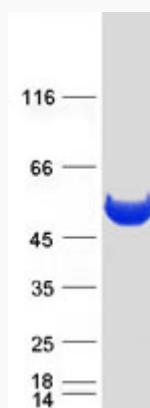
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MIM 613230

UniProt ID P12955

SDS-PAGE



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