

Active Recombinant Full Length Human PEPD Protein, Tag Free

Cat. No. PEPD-30836TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PEPD Protein, Human is the recombinant human-derived PEPD protein, expressed by E. coli, with tag free.
Species	Human
Source	E.coli
ProteinLength	2-493 aa
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
AASequence	AAATGPSFWLGNETLKVPLALFALNRQLCERLRKNPAVQAGSIVVLQGGEETQRY CTDTGVLFRQESFFHWAFGVTEPGCYGVIDVDTGKSTLFVPRLPASHATWMGKIHS KEHFKEKYAVDDVQYVDEIASVLTSQKPSVLLTLRGVNNTDSGSVCREASFDGISKFE VNNTILHPEIVECRVFKTDMELEVLRYTNKISSEAHREVMKAVKVG MKEYELESLEFEH YCYSRGGMRHSSYTCICGSGENSAVLHYGHAGAPNDRTIQNGDMCLFDMGGEYY

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CFASDITCSFPANGKFTADQKAVYEAVLRSSRAVMGAMKPGVWWPDMHRLADRIH
LEELAHMGILSGSVDAMVQAHLGAVFMPHGLGHFLGIDVHDVGGYPEGVERIDEPG
LRSLRTARHLQPGMVLTVEPGIYFIDHLLDEALADPARASFFNREVLQFRGFGGVRI
EEDVVVTDSGIELLTCVPRTVEEIEACMAGCDKAFTPFSGPK

Molecular Mass 54-60 kDa

Bio-activity Measured by its ability to cleave a peptide substrate, Gly-Pro-AMC. Read at excitation and emission wavelengths of 380 nm and 460 nm (top read). The specific activity is 5013.428 pmol/min/μg.

Endotoxin < 1 EU/μg by LAL.

Storage Stored at -80 centigrade for 1 year from date of receipt. It is stable at -20 centigrade for 3 months after opening. It is recommended to freeze aliquots at -80 centigrade for extended storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Supplied as a 0.2 μm filtered solution of 25 mM Tris-HCl, 100 mM Glycine, 10% Glycerol, pH 8.5 or 50 mM Tris-HCL, 300 mM NaCL, 10% Glycerol, pH 7.4.

Shipping Shipping with dry ice.

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;

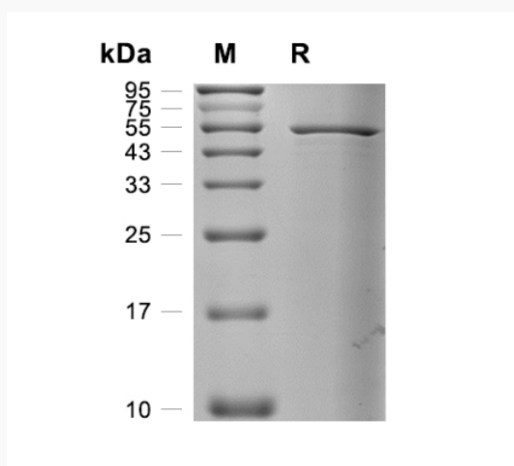
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Gene ID	5184
mRNA Refseq	NM_000285
Protein Refseq	NP_000276
MIM	613230
UniProt ID	P12955

SDS-PAGE and WB



Greater than 95% as determined by reducing SDS-PAGE.

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