Recombinant Full Length Human PEPD Protein, C-Flag-tagged

Cat. No. PEPD-1390HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PEPD Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.4 kDa
AA Sequence	MAAATGPSFWLGNETLKVPLALFALNRQRLCERLRKNPAVQAGSIVVLQGGEETQR YCTDTGVLFRQESF FHWAFGVTEPGCYGVIDVDTGKSTLFVPRLPASHATWMGKIH SKEHFKEKYAVDDVQYVDEIASVLTSQK PSVLLTLRGVNTDSGSVCREASFDGISKF EVNNTILHPEIVECRVFKTDMELEVLRYTNKISSEAHREVM KAVKVGMKEYELESLF EHYCYSRGGMRHSSYTCICGSGENSAVLHYGHAGAPNDRTIQNGDMCLFDMGGE YYCFASDITCSFPANGKFTADQKAVYEAVLRSSRAVMGAMKPGVWWPDMHRLADR

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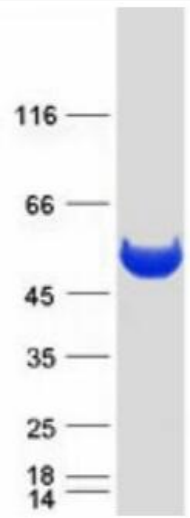
	IHLEELAHMGILSGS VDAMVQAHLGAVFMPHGLGHFLGIDVHDVGGYPEGVERIDE PGLRSLRTARHLQPGMVLTVEPGIYFIDH LLDEALADPARASFLNREVLQRFRGFGG VRIEEDVVVTDSGIELLTCVPRTVEEIEACMAGCDKAFTPFS GPKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease
Full Length	Full L.

GENE INFORMATION

Gene Name	PEPD peptidase D [Homo sapiens (human)]
Official Symbol	PEPD
Synonyms	PROLIDASE
Gene ID	5184

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mRNA Refseq	NM_000285.4
Protein Refseq	NP_000276.2
MIM	613230
UniProt ID	P12955



Coomassie blue staining of purified PEPD protein.

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