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Recombinant human PEPD protein

Catalog Number: ATGP2980

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-493aa

UniProt No.
P12955

NCBI Accession No.
NP_000276

Alternative Names
Xaa-Pro dipeptidase isoform 1, PROLIDASE

PRODUCT SPECIFICATION

Molecular Weight
56.9 kDa (516aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human PEPD, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

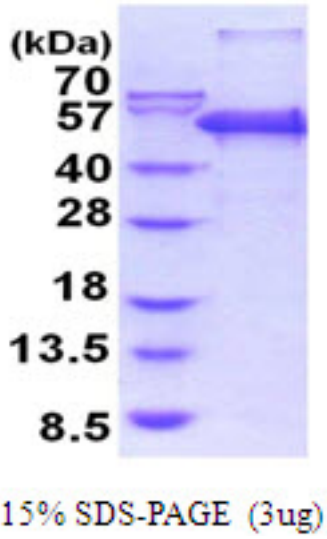
MGSSHHHHHH SSGLVPRGSH MGSMAAATGP SFWLGNETLK VPLALFALNR QRLCERLRKN PAVQAGSIVV LQGGEETQRY CTDTGVLFRQ ESFFHWAFGV TEPGCYGVID VDTGKSTLFV PRLPASHATW MGKIHSKEHF KEKYAVDDVQ YVDEIASVLT SQKPSVLLTL RGVNTDSGSV CREASFDGIS KFEVNNTILH PEIVECRVFK TDMELEVLRY TNKISSEAHR EVMKAVKVGM KEYELESLFE HYCYSRGGMR HSSYTCICGS GENSAVLHYG HAGAPNDRTI QNGDMCLFDM GGEYYCFASD ITCSFPANGK FTADQKAVYE AVLRSSRAVM GAMKPGVWWP DMHRLADRIH LEELAHMGIL SGSVDAMVQA HLGAVFMPHG LGHFLGIDVH DVGGYPEGVE RIDEPGLRSL RTARHLQPGM VLTVEPGIYF IDHLLDEALA DPARASFLNR EVLQRFRGFG GVRIEEDVVV TDSGIELLTC VPRTVEEIEA CMAGCDKAFT PFSGPK

General References

Toprak G., et al. (2013) Eur Rev Med Pharmacol Sci 17 (17), 2302-2309
Surazynski A., et al. (2013) Mol. Cell. Biochem. 379 (1-2), 29-36

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.