
Product Data Sheet

Product Name: PEPD Human

Cat. No.: GP22069

Batch No.: 1

Product Data

Purity >98%

Source E.coli.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

Synonyms Xaa-Pro dipeptidase; X-Pro dipeptidase; Imidodipeptidase; Peptidase D; Proline dipeptidase; Prolidase; PRD; PEPD; Xaa-Pro dipeptidase isoform 1; PROLIDASE.

Amino Acid Sequence
 MGSSHHHHH SGLVPRGSHMGSMMAATGP SFWLGNETLK VPLALFALNR
 QRLCERLRKN PAVQAGSIVV LQGGEETQRY CTDTGVLFRQESFFHWAFGV
 TEPGCYGVID VDTGKSTLFV PRLPASHATW MGKIHKEHF KEKYAVDDVQ
 YVDEIASVLTSQKPSVLLTL RGVNTDSGVSVCREASFDGIS KFEVNNTILH
 PEIVECRVFK TDMELEVLRYTNKISSEHR EVMKAVKVGM KEYELESLE
 HCYSRGGMR HSSYTCICGS GENSAVLHYG HAGAPNDRTIQNGDMCLFDM
 GGEYYCFASD ITCSFPANGK FTADQKAVYE AVLRSSRAVM GAMKPGVWWP
 DMHRLADRIH LEELAHMGILSGSVDAMVQA HLGAVFMPHG LGHFLGIDVH
 DVGGYPEGVE RIDEPLRSL RTARHLQPGM VLTVEPGIYFIDHLLDEALA
 DPARASFLNR EVLQRFRGFG GVRIEEDVVV TDSGIELLTC VPRTVEEIEA
 CMAGCDKAFTPFSGPK.

Formulation PEPD protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.

Introduction

Peptidase D, also known as PEPD, is a part of the peptidase family. PEPD is involved in collagen metabolism due to the high level of iminoacids in collagen. PEPD recycles proline, and sets the pace for the production of collagen. PEPD is also parts dipeptides with a prolyl or hydroxyprolyl residue in the C-terminal position.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PEPD Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 516 amino acids (1-493a.a.) and having a molecular mass of 56.9kDa. PEPD is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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