Recombinant human Prolyl Oligopeptidase/PREP protein

Catalog Number: ATGP2827

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-710aa

UniProt No.
P48147

NCBI Accession No.
NP_002717

Alternative Names
Prolyl endopeptidase, PE, PEP, Post-proline cleaving enzyme, Prolyl endopeptidase

PRODUCT SPECIFICATION

Molecular Weight
83.1 kDa (733aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% 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
PREP is a cytosolic prolyl endopeptidase that cleaves peptide bonds on the C-terminal side of prolyl residues within peptides that are up to approximately 30amino acids long. Prolyl endopeptidases have been reported to be involved in the maturation and degradation of peptide hormones and neuropeptides. Recombinant human PREP protein, 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

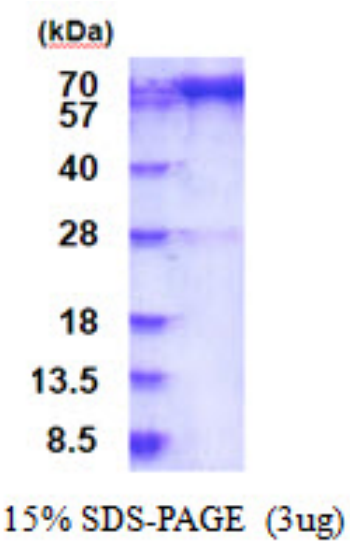
MGSSHHHHHH SSGLVPRGSH MGSMLSLQYP DVYRDETAVQ DYHGHKICDP YAWLEDPDSE QTKAFVEAQN KITVPFLEQC PIRGLYKERM TELYDYPKYS CHFKKGKRYF YFYNTGLQNQ RVLYVQDSLE GEARVFLDPN ILSDDGTVAL RGYAFSEDGE YFAYGLSASG SDWVTIKFMK VDGAKELPDV LERVKFSCMA WTHDGKGMFY NSYPQQDGKS DGTETSTNLH QKLYYHVLGT DQSEDILCAE FPDEPKWMGG AELSDDGRYV LLSIREGCDP VNRLWYCDLQ QESSGIAGIL KWVKLIDNFE GEYDYVTNEG TVFTFKTNRQ SPNYRVINID FRDPEESKWK VLVPEHEKDV LEWIACVRSN FLVLCYLHDV KNILQLHDLT TGALLKTFPL DVGSIVGYSG QKKDTEIFYQ FTSFLSPGII YHCDLTKEEL EPRVFREVTV KGIDASDYQT VQIFYPSKDG TKIPMFIVHK KGIKLDGSHP AFLYGYGGFN ISITPNYSVS RLIFVRHMGG ILAVANIRGG GEYGETWHKG GILANKQNCF DDFQCAAEYL IKEGYTSPKR LTINGGSNGG LLVAACANQR PDLFGCVIAQ VGVMDMLKFH KYTIGHAWTT DYGCSDSKQH FEWLVKYSPL HNVKLPEADD IQYPSMLLLT ADHDDRVVPL HSLKFIATLQ YIVGRSRKQS NPLLIHVDTK AGHGAGKPTA KVIEEVSDMF AFIARCLNVD WIP

General References

Matsuda,T., et al. (2013) Cell Biol. 45 (4), 850-857

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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