

# Recombinant human Prolyl Oligopeptidase/PREP protein

Catalog Number: ATGP2827

## PRODUCT INFORMATION

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### 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

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### 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

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### 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 30 amino 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

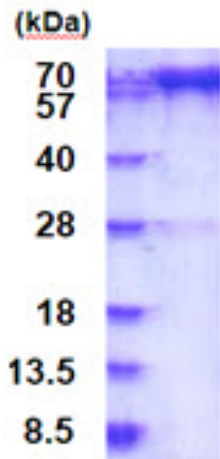
MGSSHHHHHH SSSLVPRGSH MGSMLSLQYP DVYRDETAVQ DYHGHKICDP YAWLEDPDSE QTKAFVEAQN KITVPFLEQC  
PIRGLYKERM TELYDYPKYS CHFKKGKRYF YFYNTGLQNO RVLYVQDSLE GEARVFLDPN ILSDDGTVAL RGYAFSEGE  
YFAYGLSASG SDWVTIKFMK VDGAKELPDV LERVKFSCMA WTHDGKGMFY NSYPQQDGKS DGTETSTNLH QKLYYHVLGT  
DQSEDILCAE FPDEPKWMGG AELSDDGRYV LLSIREGCDP VNRLWYCDLQ QESSGIAGIL KVVKLIDNFE GEYDYVTNEG  
TVFTFKTNRQ SPNYRVINID FRDPEESKWK VLVPEHEKDV LEWIACVRSN FLVLCYLHDV KNILQLHDLT TGALLKTFPL  
DVGSIVGYSG QKKDTEIFYQ FTSFLSPGII YHCDLTKEEL EPRVFRETV KGIDASDYQT VQIFYPSKDG TKIPMFIVHK  
KGIKLDGSHP AFLYGYGGFN ISITPNYSVS RLIFVRHMGG ILAVANIRGG GEYGETWHKG GILANKQNCF DDFQCAEYL  
IKEGYSPKR LTINGGSNGG LLVAACANQR PDLFGCVIAQ VGVMMLKFH KYTIGHAWTT DYGCSDSKQH FEWLKYSPL  
HNVKLPEADD IQYPSMLLLT ADHDDRVPPL HSLKFIATLQ YIVGRSRKQS NPLLIHVDTK AGHGAGKPTA KVIEEVSDMF  
AFIARCLNVD WIP

## General References

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

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)