

Recombinant human PGPEP-1 protein

Catalog Number: ATGP1839

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-209aa

UniProt No.

Q9NXJ5

NCBI Accession No.

NP_060182

Alternative Names

Pyroglutamyl-peptidase 1, Pyroglutamyl-peptidase I, Pcp, PGP, PGP-I, PGPI

PRODUCT SPECIFICATION

Molecular Weight

25.5 kDa (232aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Purity

> 95% 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

PGPEP1 is an omega peptidase which removes pyroglutamyl residues from the amino termini of peptides and proteins. It is a cytosolic cysteine peptidase that is expressed in most cell types. The enzyme requires a thiolreducing agent for activity. PGPEP1 is potentially involved in the inactivation of biologically active peptides that possess an amino terminal pyroglutamyl group. Examples of such peptides include neurotensin, luteinizing hormone releasing hormone, and thyrotropinreleasing hormone. Recombinant human PGPEP1 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

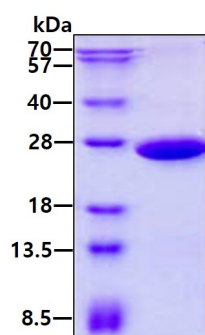
<MGSSHHHHHH SSGLVPRGSH MGS>MEQPRKA VVVTGFGPFG EHTVNASWIA VQELEKLGLG DSVDLHVYEI
PVEYQTVQRL IPALWEKHSP QLVVHVGVS G MATTVTLEKC GHNKGYKGLD NCRFCPGSQ CVEDGPESID SIIDMDAVCK
RVTTLGLDVS VTISQDAGRY LCDFTYYTSL YQSHGRSAFV HVPPLGKPYN ADQLGRALRA IIEMLDLLE QSEGKINYCH KH

General References

Kilbane Z. et al. (2007) Mol. Cell. Biochem. 297:189.

DATA

SDS-PAGE



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