

Recombinant human Aminopeptidase P1/XPNPEP1 protein

Catalog Number: ATGP3107

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-623aa

UniProt No.

Q9NQW7

NCBI Accession No.

NP_065116

Alternative Names

Xaa-Pro aminopeptidase 1 isoform 1, APP1, SAMP, XPNPEP, XPNPEPL, XPNPEPL1

PRODUCT SPECIFICATION

Molecular Weight

73.4 kDa (655aa)

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity

> 85% 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

XPNPEP1 also known as Xaa-Pro aminopeptidase 1 isoform 1, is encodes the cytosolic form of a metalloaminopeptidase that catalyzes the cleavage of the N-terminal amino acid adjacent to a proline residue. This product may play a role in degradation and maturation of tachykinins, neuropeptides, and peptide hormones. Recombinant human XPNPEP1 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 MGSEFELRRQ AS>MPPKVTSE LLRQLRQAMR NSEYVTEPIQ AYIIPSGDAH
QSEYIAPCDC RRAFVSGFDG SAGTAITEE HAAMWTDGRY FLQAAQMDS NWTLMKMGLK DTPTQEDWLV SVLPEGSRVG
VDPLIPTDY WKKMAKVLRS AGHHLIPVKE NLVDKIWTD RPERPCKPLLT LGLDYGISW KDKVADLRK MAERNVMWFV
VTALDEIAWL FNLRGSDVEH NPVFFSYAII GLETIMLFID GDRIDAPSVK EHLLDLGLE AEYRIQVHPY KSILSELKAL
CADLSPREKV WVSDKASYAV SETIPKDHRC CMPYTPICIA KAVKNSAESE GMRRRAHIKDA VALCELFNWL KEKVPKGGVT
EISAADKAAE FRRQQADFVD LSFPTISSTG PNGAIIHYAP VPETNRTLST DEVYLIDSGA QYKDGTTDVT RTMHFGTPTA
YEKECFYVL KGHIAVSAAV FPTGTKGHLL DSFARSALWD SGLDYLHGTG HGVGSFLNVH EGPCGISYKT FSDEPLEAGM
IVTDEPGYYE DGAFGIRIEN VVLVVPVGTK YNFNNRGS LT FEPLTLVPIQ TKMIDVDSL T DKECDWLNNY HLTCRDVIGK
ELQKQGRQEA LEWLIRETQP ISKQH

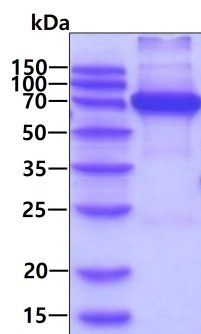
General References

Cottrell G.S., et al. (2000) Biochemistry 39:15121-15128.

Li X., et al. (2008) J. Biol. Chem. 283:22858-22866.

DATA

SDS-PAGE



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