

# Recombinant mouse Aminopeptidase N/CD13 protein

Catalog Number: ATGP3925

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

33-966aa

### UniProt No.

P97449

### NCBI Accession No.

NP\_032512

### Alternative Names

Anpep, AP-M, AP-N, Apn, Cd13, P150, mAPN, Alanyl aminopeptidase, Aminopeptidase M, Membrane protein p161, Microsomal aminopeptidase, CD13, Lap-1, Lap1, aminopeptidase N

## PRODUCT SPECIFICATION

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### Molecular Weight

107.5 kDa (943aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Specific activity is > 4,000pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1pmole of H-Ala-AMC to Alanine and AMC per minute at pH7.5 at 25C.

### Tag

His-Tag

### Application

SDS-PAGE, Enzyme Activity

### 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.

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## BACKGROUND

### Description

Anpep, also known as aminopeptidase N, is located in the small-intestinal and renal microvillar membrane, and also in other plasma membranes. It plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. This protein is also involved in the processing of various peptides including peptide hormones, such as angiotensin III and IV, neuropeptides, and chemokines. It has a role in angiogenesis and promote cholesterol crystallization and in amino acid transport by acting as binding partner of amino acid transporter SLC6A19 and regulating its activity. Recombinant mouse Anpep, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

<ADP>YAQEKNR NAENSATAPT LPGSTSATTA TTTPAVDESK PWNQYRLPKT LIPDSYRVIL RPYLTPNNQG LYIFQGNSTV RFTCNQTTDV IIIHKKLNY TLKGNHRVVL RTLDGTPAPN IDKTELVERT EYLVVHLQGS LVEGRQYEMD SQFQGELADD LAGFYRSEYM EGDVKKVAT TQMQAADARK SFPCFDEPAM KAMFNITLIY PNNLIALSNM LPKESKPYPE DPSCTMTEFH STPKMSTYLL AYIVSEFKNI SSVSANGVQI GIWARPSAID EGQGDYALNV TGPILNFFAQ HYNTSYPLPK SDQIALPDFN AGAMENWGLV TYRESSLVFD SQSSSISNKE RVVTVIAHEL AHQWFGNLVT VAWWNDLWLN EGFASYVEYL GADYAAPTWN LKDLMLVNDV YRMAVDALA SSHPLSSPAD EIKTPDQIME LFDSITYSKG ASVIRMLSSF LTEDLFKKGL SSYLHTYQYS NTVYLDLWEH LQKAVNQQA VQPPATVRTI MDRWILQMGF PVITVNTNTG EISQKHFLLD SKSNVTRPSE FNYIWIPIPI FLKSGQEDHY WLDVEKNQSA KFQTSSENEI LLNINVTGYG LVNYDENNWK KLQNQLQTDL SVIPVINRAQ IIHDSFNLAS AKMIPITLAL DNTLFLVKEA EYMPWQAALS SLNYFTLMFD RSEVYGPMKR YLKKQVTPLF FYFQNRNTNW VNRPPTLMEQ YNEINAISTA CSSGLKECRD LVVELYSQWM KNPNNNTIHP NLRSTVYCNA IAFGGEEENW FAWEQFRNAT LVNEADKLRS ALACSKDVWI LNRYLSYTLN PDYIRKQDTT STIISIASNV AGHPLVWDFV RSNWKKLFEN YGGGSFSFAN LIQGVTRRFS SEFELQLEQ FKADNSATGF GTGTRALEQA LEKTRANIDW VKENKDAVFK WFTENSS<HHH HHH>

### General References

Azimi A., et al. (2017) Cell Death Dis. 8:e3029.  
 Sørensen KD., et al. (2013) Br J Cancer. 108:420-428.

## DATA

### SDS-PAGE

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

