

Recombinant Human ANPEP protein

Cat. No. ANPEP-623H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ANPEP full-length ORF (NP_001141.1) recombinant protein without tag.
Species	Human
Source	Wheat Germ
Description	Aminopeptidase N is located in the small-intestinal and renal microvillar membrane, and also in other plasma membranes. In the small intestine aminopeptidase N plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Its function in proximal tubular epithelial cells and other cell types is less clear. The large extracellular carboxyterminal domain contains a pentapeptide consensus sequence characteristic of members of the zinc-binding metalloproteinase superfamily. Sequence comparisons with known enzymes of this class showed that CD13 and aminopeptidase N are identical. The latter enzyme was thought to be involved in the metabolism of regulatory peptides by diverse cell types, including small intestinal and renal tubular epithelial cells, macrophages, granulocytes, and synaptic membranes from the CNS. Human aminopeptidase N is a receptor for one strain of human coronavirus that is an important cause of upper respiratory tract infections. Defects in this gene appear to be a cause of various types of leukemia or lymphoma. [provided by RefSeq, Jul 2008]
Form	Liquid
Molecular Mass	109.5 kDa

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AA Sequence

MAKGFYISKSLGILGILLGVAAVCTIIALSVVYSQEKNKNANSSPVASTTPSASATTNP
 ASATTLTDQSKAWNRYRLPNTLKPDSYQVTLRPYLTPNDRGLYVFKGSSTVRFTCKE
 ATDVIIHSHKKNLNYTSLSQGHRVVLRGVGGSQPPDIDKTELVEPTEYLVVHLKGSLVKD
 SQYEMDSEFEGELADDLAGFYRSEYMEGNVRKVATTQMQAADARKSFPCFDEPA
 MKAEFNITLIHPKDLTALSNNMLPKGPSTPLPEDPNWNVTEFHTTPKMSTYLLAFIVSE
 FDYVEKQASNGVLIRIWARPSAIAAGHGDYALNVTGPILNFFAGHYDTPYPLPKSDQI
 GLPDFNAGAMENWGLVTYRENSLLFDPLSSSSSSNKERVVTVIAHELAHQWFGNLVTI
 EWWNDLWLNIEGFASYVEYLGADYAEPTWNLKDLMLVNDVYRVMVDALASSHPLS
 TPASEINTPAQISELFDAYSISKGASVLRMLSSFLSEDVFKQGLASYLHTFAYQNTIYL
 NLWDHLQEAVNNRSIQLPTTVRDIMNRWTLQMGFPVITVDTSTGTLSQEHFLDPDS
 NVTRPSEFNYYWVWPITSIRDGRQQQDYWLIDVRAQNDFSTSGNEWVLLNLTGY
 YRVNYDEENWRKIQTQLQRDHSAPVINRAQIINDAFNLASAHKVPVTLALNNTLFLIE
 ERQYMPWEAALSSLSYFKLMFDRSEVYGPMKNYLKKQVTPLFIHFRNNTNNWREIP
 ENLMDQYSEVNAISTACSNVPECEEMVSGLFKQWMENPNNNPIHPNLRSTVYCN
 AIAQGGEEEWDFAWEQFRNATLVNEADKLRAALACSKELWILNRYLSYTLNPDILRK
 QDATSTIISITNNVIGQGLVWDFVQSNWKKLFNDYGGGSFSFSNLIQAVTRRFSTEYE
 LQQLEQFKKDNEETGFGSGTRALEQALEKTKANIKWVKENKEVVLQWFTENSK

Applications

Antibody Production; Functional Study; Compound Screening

Usage

Heating may cause protein aggregation. Please do not heat this product before electrophoresis.

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

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Gene Name	ANPEP alanyl (membrane) aminopeptidase [Homo sapiens]
Official Symbol	ANPEP
Synonyms	ANPEP; alanyl (membrane) aminopeptidase; CD13, PEPN; aminopeptidase N; aminopeptidase M; gp150; LAP1; microsomal aminopeptidase; p150; AP-M; AP-N; hAPN; alanyl aminopeptidase; myeloid plasma membrane glycoprotein CD13; APN; CD13; P150; PEPN; GP150;
Gene ID	290
mRNA Refseq	NM_001150
Protein Refseq	NP_001141
MIM	151530
UniProt ID	P15144

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