

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
 ASATTLDQSKAWNRYRLPNTLKPDSYQVTLRPYLTPNDRGLYVFKGSSTVRFTCKE
 ATDVIIHSKKNLNYTLSQGHRVVLRGVGGSQPPDIDKTELVEPTEYLVVHLKGSVKD
 SQYEMDSEFEGELADDLAGFYRSEYMEGNVRKVVATTQMQAADARKSFPCFDEPA
 MKAEFNITLIHPKDLTALSNMPLKGPSTPLPEDPNWNVTEFHHTPKMSTYLLAFIVSE
 FDYVEKQASNGVLIRIWARPSAIAAGHGDYALNVTGPILNFFAGHYDTPYPLPKSDQI
 GLPDFNAGAMENWGLVITYRENSLLFDPLSSSSSNKERVVTVIAHELAHQWFGNLVTI
 EWWNDLWLNIEGFASYVEYLGADYAEPTWNLKDLMLVNDVYRVMVDALASSHPLS
 TPASEINTPAQISELFDAISYSKYGASVLRMLSSFLSEDVFKQGLASYLHTFAYQNTIYL
 NLWDHLQEAVNRSIQLPTTVRDIMNRWTLQMGFPVITVDTSTGTLSQEHFLDPDS
 NVTRPSEFNYYWVWPITSIRDGRQQDYWLIDVRAQNDFSTSGNEWVLLNLNVTGY
 YRVNYDEENWRKIQTQLQRDHSAPVINRAQIINDAFNLASAHKVPVTLALNNTLFLIE
 ERQYMPWEAALSSLSYFKLMFDRSEVYGPKNYLKKQVTPLFIFRNNTNNWREIP
 ENLMDQYSEVNAISTACSNVPECEEMVSGLFKQWMENPNNNPIHPNLRSTVYCN
 AIAQGGEEEWDFAWEQFRNATLVNEADKLRAALACSKELWILNRYLSYTLNPDLRK
 QDATSTIISITNNVIGQGLVWDFVQSNWKKLFNDYGGGSFSSFNLIQAVTRRFSTEYE
 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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