

Recombinant Full Length Human ANPEP Protein, GST-tagged

Cat. No. ANPEP-1038HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ANPEP full-length ORF (NP_001141.1, 1 a.a. - 967 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	967 amino acids
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]

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Molecular Mass	135.9 kDa
AA Sequence	MAKGFYISKS LGILGILLGV AAVCTIIALS VVYSQEKKNK ANSSPVASTT PSASATTNPA SATTLDQSKA WNRYPRLPNTL KPDSYQVTLR PYLTPNDRGL YVFKGSSTVR FTCKEATDVI IHSKKLNYT LSQGHRVVLR GVGGSQPPDI DKTELVEPTE YLVVHLKGSL VKDSQYEMDS EFEGELADDL AGFYRSEYME GNVRKVVATT QMQAADARKS FPCFDEPAMK AEFNITLIHP KDLTALS NML PKGPSTPLPE DPNWNVTEFH TPKMSTYLL AFIVSEFDYV EKQASNGVLI RIWARPSAIA AGHGDYALNV TGPILNFFAG HYDTPYPLPK SDQIGLPDFN AGAMENWGLV TYRENSLLFD PLSSSSSSNKE RVVTVIAHEL AHQWFGNLVT IEWWNDLWLN EGFASYVEYL GADYAEPTWN LKDLMVLNDV YRMAVDALA SSHPLSTPAS EINTPAQISE LFDAYSYSKG ASVLRMLSSF LSEDVFKQGL ASYLHTFAYQ NTIYLNLDWH LQEAVNNRSI QLPTTVRDIM NRWTLQMGFP VITVDTSTGT LSQEHFLLDP DSNVTRPSEF NYVWIVPITS IRDGRQQQDY WLIDVRAQND LFSTSGNEWV LLNLNVTGYR RVNYDEENWR KIQTQLQRDH SAIPVINRAQ IINDAFNLAS AHKVPVTAL NNTLFLIEER QYMPWEAALS SLSYFKLMFD RSEVYGPMKN YLKKQVTPLF IHFRNNTNNW REIPENLMDQ YSEVNAISTA CSNGVPECEE MVSGLFKQWM ENPNNNPIHP NLRSTVYCNA IAQGGEEEDW FAWEQFRNAT LVNEADKLRA ALACSKELWI LNRYLSYTLN PDLIRKQDAT STIISITNNV IGQGLVWDFV QSNWKKLFND YGGGSFSFSN LIQAVTRRFS TEYELQQLEQ FKKDNEETGF GSGTRALEQA LEKTKANIKW VKENKEVVLQ WFTENSK
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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GENE INFORMATION

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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