

# Recombinant Full Length Human ANPEP Protein, GST-tagged

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

## SPECIFICATION

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

### Description

Amino peptidase N is located in the small-intestinal and renal microvillar membrane, and also in other plasma membranes. In the small intestine amino peptidase 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 amino peptidase 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 amino peptidase 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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<b>Molecular Mass</b>	135.9 kDa
<b>AA Sequence</b>	<p>MAKGFYISKS LGILGILLGV AAVCTIIALS VVYSQEKNKN ANSSPVASTT  PSASATTNPA SATTLDQSKA WNRYPRLPNTL KPDSYQVTLR PYLTPNDRGL  YVFKGSSTVR FTCKEATDVI IHSKKNLYT LSQGHRVVLV GVGGSQPPDI  DKTELVEPTE YLVVHLKGSV VKDSQYEMDS EFEGELADDL AGFYRSEYME  GNVRKVVATT QMQAADARKS FPCFDEPAMK AEFNITLIHP KDLTALS NML  PKGPSTPLPE DPNWNVTEFH TPKMSTYLL AFIVSEFDYV EKQASNGVLI  RIWARPSAIA AGHGDYALNV TGPILNFFAG HYDTPYPLPK SDQIGLPDFN  AGAMENWGLV TYRENSLLFD PLSSSSSNKE RVVTVIAHEL AHQWFGNLVT  IEWWNDLWLN EGFASYVEYL GADYAEPTWN LKDLMLVNDV YRMAVDALA  SSHPLSTPAS EINTPAQISE LFDAYSYSKG ASVLRMLSSF LSEDVFKQGL  ASYLHTFAYQ NTIYLNLDWH LQEAVNNRSI QLPTTVRDIM NRWTLQMGFP  VITVDTSTGT LSQEHFLDLP DSNVTRPSEF NYVWIVPITS IRDGRQQQDY  WLIDVRAQND LFSTSGNEWV LLNLNVTGYY RVNYDEENWR KIQTQLQRDH  SAIPVINRAQ IINDAFNLAS AHKVPVTAL NNTLFLIEER QYMPWEAALS  SLSYFKLMFD RSEVYGPMPN YLKKQVTPLF IHFRNNTNNW REIPENLMDQ  YSEVNAISTA CSNGVPECEE MVSGLFKQWM ENPNNNPIHP NLRSTVYCNA  IAQGGEEEDW FAWEQFRNAT LVNEADKLRA ALACSKELWI LNRYLSYTLN  PDLIRKQDAT STIISITNNV IGQGLVWDFV QSNWKKLFND YGGGSFSFSN  LIQAVTRRFS TEYELQQLEQ FKKDNEETGF GSGTRALEQA LEKTKANIKW  VKENKEVVLLQ WFTENSK</p>
<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	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 Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA