

Recombinant Full Length Human ANPEP Protein, C-Flag-tagged

Cat. No. ANPEP-794HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length Human ANPEP Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species

Human

Source

Mammalian Cells

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. This membrane-bound zinc metalloprotease is known to serve as a receptor for the HCoV-229E alphacoronavirus as well as other non-human coronaviruses. This gene has also been shown to promote angiogenesis, tumor growth, and metastasis and defects in this gene are associated with various types of leukemia and lymphoma.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	106.3 kDa
AA Sequence	MAKGFYISKSLGILGILLGVAAVCTIIALSVVYSQEKNKNANSSPVASTTPSASATTNP ASATTLDDQSKA WNRRLPNTLKPDSYQVTLRPYLTPNDRGLYVFKGSSTVRFTCKE ATDVIIHSKKNLNTLSQGHRVLR GVGGSQPPDIDKTELVEPTEYLVVHLKGSVLKD SQYEMDSEFEGELADDLAGFYRSEYMEGNVRKVATT QMQAADARKSFPCFDEP AMKAEFNITLIHPKDLTALSNNMLPKGPSTPLPEDPNWNVTEFHTTPKMSTYLL AFIVS EFDYVEKQASNGVLIRIWARPSAIAAGHGDYALNVTGPILNFFAGHYDTPYPLPKSD QIGLPDFN AGAMENWGLVTYRENSLLFDPLSSSSSNKERVVTVIAHELAHQWFGNL VTIEWWNLDLWLNELGASYVEYL GADYAEPTWNLKDLMLVNDVYRVMAVDALASSH PLSTPASEINTPAQISELFDAYSISKASVLRMLSSF LSEDVFKQGLASYLHTFAYQN TIYLNLDLWHLQEAVNNRSIQLPTTVRDIMNRWTLQMGFPVITVDTSTGT LSQEHFLL DPDSNVTRPSEFNYSVWVPITSIRDGRQQQDYWLIDVRAQNDFSTSGNEWVLLNLN VTGYY RVNYDEENWRKIQTQLQRDHSAIPVINRAQIINDAFNLASAHKVPVTLALNNT LFLIEERQYMPWEAALS SLSYFKLMFDRSEVYGPMKNYLKKQVTPLEFIHFRNNTNN WREIPENLMDQYSEVNAISTACSNGVPECEE MVSGLFKQWMENPNNNPIHPNLR TVYCNAIAQGGEEWDFAWQFRNATLVNEADKLRAALACSKELWI LNRYLSYTLN PDLIRKQDATSTIISITNNVIGQGLVWDFVQSNWKKLFNDYGGGSFSFSNLIQAVTRR FS TEYELQQLEQFKKDNEETGFGSGTRALEQALEKTKANIKWVKENKEVVLQWFTENS KTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

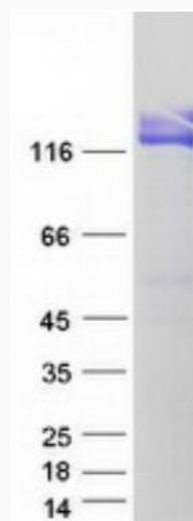
 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Protease, Transmembrane
Protein Pathways	Glutathione metabolism, Hematopoietic cell lineage, Metabolic pathways, Renin-angiotensin system
Full Length	Full L.
GENE INFORMATION	
Gene Name	ANPEP alanyl aminopeptidase, membrane [Homo sapiens (human)]
Official Symbol	ANPEP
Synonyms	APN; AP-M; AP-N; CD13; LAP1; P150; PEPN; hAPN; GP150
Gene ID	290
mRNA Refseq	NM_001150.3
Protein Refseq	NP_001141.2
MIM	151530
UniProt ID	P15144

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Coomassie blue staining of purified ANPEP protein.

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA