

Aminopeptidase N/CD13 Protein, Pig, Recombinant (His & Myc)

General Information

Synonyms:	CD13;Alanyl aminopeptidase;Amino peptidase M (AP-M);Amino peptidase N;Microsomal aminopeptidase;pAPN;gp130;ANPEP;AP-N
Protein Construction:	616-963 aa
Species:	Sus scrofa (Pig)
Expression Host:	E. coli
Accession:	P15145
Molecular Weight:	47.1 kDa (predicted)
AA Sequence:	WVLLNVNVTGYFQVNYDEDNWRMIQHQQLQTNLSVIPVINRAQVIYDSFNLATAHMPVTLALDNTLFLNGE KEYMPWQAALSSLSYFSLMFDRSEVYGPMKKYLKQVEPLFQHFETLTKNWTERPENLMDQYSEINAISTAC SNGLPQCENLAKTLFDQWMSDPENNPPIHPNLRSTIYCNAIAQGGQDQWDFAWGQLQQAQLVNEADKLR ALACSNEVWLLNRYLGYTLNPD LIRKQDATSTINSIASNVIGQPLAWDFVQSNWKKLFQDYGGGSFSSNLIQ GVTRRFSEFELQQLEQFKNNMDVGFSGTRALEQALEKTKANIKWVKENKEVVLNWFIEHS

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Broad specificity aminopeptidase which plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Also involved in the processing of various peptides including peptide

hormones, such as angiotensin III and IV, neuropeptides, and chemokines. May also be involved the cleavage of peptides bound to major histocompatibility complex class II molecules of antigen presenting cells. May have a role in angiogenesis and promote cholesterol crystallization. It is able to degrade Leu-enkephalin and Met-enkephalin but not cholecystokinin CCK8, neuromedin C (GRP-10), somatostatin-14, substance P and vasoactive intestinal peptide. May have a role in amino acid transport by acting as binding partner of amino acid transporter SLC6A19 and regulating its activity.; (Microbial infection) In case of porcine transmissible gastroenteritis coronavirus (TGEV) and porcine respiratory coronavirus (PRCoV) infections, serves as a receptor for TGEV and PRCoV spike glycoprotein in a species-specific manner.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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