

Recombinant Human ANPEP protein, His & T7-tagged

Cat. No. ANPEP-1454H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human ANPEP aa. (Asn581~Asn738 (Accession # P15144)) fused with N-terminal His & T7 tag was produced in E. coli cells.

Species

Human

Source

E.coli

ProteinLength

Asn581~Asn738

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.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 22.2kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method).
Purity	>95%
Characteristic	The isoelectric point is 9.2.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	ANPEP alanyl aminopeptidase, membrane [Homo sapiens (human)]
Official Symbol	ANPEP
Synonyms	APN; CD13; LAP1; P150; PEPN; GP150; AP-M; AP-N; alanyl (membrane)

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aminopeptidase; aminopeptidase M; hAPN; membrane alanyl; aminopeptidase; microsomal aminopeptidase; myeloid plasma membrane glycoprotein CD13; aminopeptidase N

Gene ID 290

mRNA Refseq NM_001150.2

Protein Refseq NP_001141.2

UniProt ID P15144

SDS-PAGE

