

Recombinant Human Aminopeptidase N(ANPEP) ,partial

Cat. No. ANPEP-250H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human ANPEP extracellular domain(858-967aa), fused with His-sumo-tag at C-terminal, was expressed in E. coli.

Species Human

Source E.coli

ProteinLength 858-967aa

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	Tris-based buffer,50% glycerol
Purity	>90%
Stability	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade.
Shipping	30-40 work days

GENE INFORMATION

Gene Name	ANPEP alanyl (membrane) aminopeptidase [Homo sapiens]
Official Symbol	ANPEP
Synonyms	APN; CD13; LAP1; P150; PEPN; GP150; aminopeptidase N; AP-M; AP-N; alanyl aminopeptidase; aminopeptidase M; hAPN; microsomal aminopeptidase; myeloid plasma membrane glycoprotein CD13
Gene ID	290
mRNA Refseq	NM_001150
Protein Refseq	NP_001141
MIM	151530
UniProt ID	P15144

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Chromosome Location	15q25-q26
Pathway	C-MYB transcription factor network, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem
Function	aminopeptidase activity; metallopeptidase activity; receptor activity

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