

Datasheet for ABIN7318062

CD13 Protein (His tag)

[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	CD13 (ANPEP)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD13 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ANPEP/CD13 Protein (603 Met/Ile, His Tag)(Active)
Sequence:	Lys 69-Lys 967,603 Met/Ile
Characteristics:	A DNA sequence encoding the metalloprotease domain (Lys 69-Lys 967,603 Met/Ile) of the mature form of human ANPEP (NP_001141.2) was expressed with N-terminal signal peptide and C-terminal polyhistidine tag.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave the fluorogenic peptide substrate, Ala-7-amido-4-methylcoumarin (Ala-AMC). The specific activity is >2,500 pmoles/min/µg.

Target Details

Target:	CD13 (ANPEP)
---------	--------------

Target Details

Alternative Name:	ANPEP/CD13 (ANPEP Products)
Background:	<p>Background: Aminopeptidase N (ANPEP or APN), also known as CD13, is a cell-surface metalloprotease located in the small-intestinal and renal microvillar membrane, as well as other plasma membranes. It belongs to the peptidase M1 family. CD13 plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases and is involved in the metabolism of regulatory peptides by diverse cell types. CD13/APN is a potent regulator of angiogenesis which is essential for tumor invasion and metastasis, and its transcription in activated endothelial cells is induced by angiogenic growth factors via the RAS/MAPK pathway. In addition, this enzyme has been shown to participate in antigen processing and presentation, and accordingly, defects in this gene appear to be a cause of various types of leukemia or lymphoma and carcinomas.</p> <p>Synonym: APN,CD13,GP150,LAP1,P150,PEPN</p>
Molecular Weight:	104.2 kDa
NCBI Accession:	NP_001141
Pathways:	Peptide Hormone Metabolism , Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.3
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>