Datasheet for ABIN7519664

CD13 Protein (His tag)

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Overview

Quantity:	100 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:	Active Recombinant Human Aminopeptidase N/CD13 Protein
Sequence:	KAWNRYRLPN TLKPDSYRVT LRPYLTPNDR GLYVFKGSST VRFTCKEATD VIIIHSKKLN YTLSQGHRVV LRGVGGSQPP DIDKTELVEP TEYLVVHLKG SLVKDSQYEM DSEFEGELAD DLAGFYRSEY MEGNVRKVVA TTQMQAADAR KSFPCFDEPA MKAEFNITLI HPKDLTALSN MLPKGPSTPL PEDPNWNVTE FHTTPKMSTY LLAFIVSEFD YVEKQASNGV LIRIWARPSA IAAGHGDYAL NVTGPILNFF AGHYDTPYPL PKSDQIGLPD FNAGAMENWG LVTYRENSLL FDPLSSSSSN KERVVTVIAH ELAHQWFGNL VTIEWWNDLW LNEGFASYVE YLGADYAEPT WNLKDLMVLN DVYRVMAVDA LASSHPLSTP ASEINTPAQI SELFDAISYS KGASVLRMLS SFLSEDVFKQ GLASYLHTFA YQNTIYLNLW DHLQEAVNNR SIQLPTTVRD IMNRWTLQMG FPVITVDTST GTLSQEHFLL DPDSNVTRPS EFNYVWIVPI TSIRDGRQQQ DYWLIDVRAQ NDLFSTSGNE WVLLNLNVTG YYRVNYDEEN WRKIQTQLQR DHSAIPVINR AQIINDAFNL ASAHKVPVTL ALNNTLFLIE ERQYMPWEAA LSSLSYFKLM FDRSEVYGPM KNYLKKQVTP LFIHFRNNTN NWREIPENLM DQYSEVNAIS TACSNGVPEC EEMVSGLFKQ WMENPNNNPI

Product Details

	HPNLRSTVYC NAIAQGGEEE WDFAWEQFRN ATLVNEADKL RAALACSKEL WILNRYLSYT LNPDLIRKQD ATSTIISITN NVIGQGLVWD FVQSNWKKLF NDYGGGSFSF SNLIQAVTRR FSTEYELQQL EQFKKDNEET GFGSGTRALE QALEKTKANI KWVKENKEVV LQWFTENSK
Specificity:	Lys69-Lys967
Purity:	> 98 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by 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 >4300 pmol/min/µg.

Target Details

Target:	CD13 (ANPEP)
Alternative Name:	Aminopeptidase N/CD13 (ANPEP Products)
Background:	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. Name: ANPEP, APN, CD13, GP150, LAP1, P150, PEPN, aminopeptidase N,APN,CD13,GP150,LAP1,P150,PEPN, AP-M, AP-N, hAPN
Gene ID:	290
UniProt:	P15144
Pathways:	Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

