Datasheet for ABIN1096002

XPNPEP1 Protein (AA 2-623) (His tag)

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Overview

Quantity:	50 µg
Target:	XPNPEP1
Protein Characteristics:	AA 2-623
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This XPNPEP1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Xaa-Pro Aminopeptidase 1/XPNPEP1 (C-6His)
Sequence:	PPKVTSELLR QLRQAMRNSE YVTEPIQAYI IPSGDAHQSE YIAPCDCRRA FVSGFDGSAG TAIITEEHAA MWTDGRYFLQ AAKQMDSNWT LMKMGLKDTP TQEDWLVSVL PEGSRVGVDP LIIPTDYWKK MAKVLRSAGH HLIPVKENLV DKIWTDRPER PCKPLLTLGL DYTGISWKDK VADLRLKMAE RNVMWFVVTA LDEIAWLFNL RGSDVEHNPV FFSYAIIGLE TIMLFIDGDR IDAPSVKEHL LLDLGLEAEY RIQVHPYKSI LSELKALCAD LSPREKVWVS DKASYAVSET IPKDHRCCMP YTPICIAKAV KNSAESEGMR RAHIKDAVAL CELFNWLEKE VPKGGVTEIS AADKAEEFRR QQADFVDLSF PTISSTGPNG AIIHYAPVPE TNRTLSLDEV YLIDSGAQYK DGTTDVTRTM HFGTPTAYEK ECFTYVLKGH IAVSAAVFPT GTKGHLLDSF ARSALWDSGL DYLHGTGHGV GSFLNVHEGP CGISYKTFSD EPLEAGMIVT DEPGYYEDGA FGIRIENVVL VVPVKTKYNF NNRGSLTFEP LTLVPIQTKM IDVDSLTDKE CDWLNNYHLT CRDVIGKELQ KQGRQEALEW LIRETQPISK QHHHHHH
Characteristics:	Recombinant Human Xaa-Pro Aminopeptidase 1/XPNPEP1 is produced by our E. coli

Product Details

	expression system. The target protein is expressed with sequence (Pro2-His623) of Human XPNPEP1.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	XPNPEP1
Alternative Name:	Xaa-Pro Aminopeptidase 1/XPNPEP1 (XPNPEP1 Products)
Background:	X-Prolyl Aminopeptidase (XPNPEP1) is a proline-specific metalloaminopeptidase that specifically catalyzes the removal of any unsubstituted N-terminal amino acid that is adjacent to a penultimate proline residue. Because of its specificity toward proline, it has been suggested that X-Prolyl Aminopeptidase is important in the maturation and degradation of peptide hormones, neuropeptides, and tachykinins, as well as in the digestion of otherwise resistant dietary protein fragments, thereby complementing the pancreatic peptidases. X-Prolyl Aminopeptidase is a member of the M24 family of metalloproteases, which also contains methionine aminopeptidases, X-Pro dipeptidase, aminopeptidase P2, aminopeptidase P homolog, proliferation-associated protein 1, and suppressor of Ty homolog or chromatin-specific transcription elongation factor large subunit. It is a soluble enzyme, in contrast to the GPI-anchored Aminopeptidase P2 encoded by XPNPEP2. Deficiency of X-Prolyl Aminopeptidase results in excretion of large amounts of imino-oligopeptides in urine. Human Aminopeptidase P1 is widely expressed. The amino acid sequence of human X-Prolyl Aminopeptidase is 99%, 97%, 95%, 74% and 73% identical to that of canine, bovine, mouse/rat, Xenopus and zebrafish, respectively. Alternative Names: Xaa-Pro Aminopeptidase 1, Aminoacylproline Aminopeptidase, Cytosolic Aminopeptidase P, Soluble Aminopeptidase P, sAmp, X-Pro Aminopeptidase 1, X-Prolyl Aminopeptidase 1 Soluble, XPNPEP1, XPNPEPL, XPNPEPL1
Molecular Weight:	70.6 kDa
UniProt:	Q9NQW7

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 10 % Glycerol, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months