

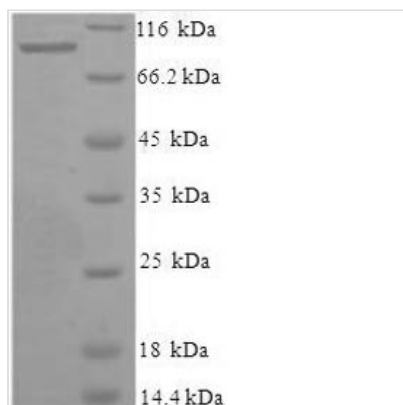


Recombinant Human Xaa-Pro aminopeptidase 1 (XPNPEP1)

Product Code	CSB-EP878859HU
Relevance	Contributes to the degradation of bradykinin. Catalyzes the roval of a penultimate prolyl residue from the N-termini of peptides, such as Arg-Pro-Pro.
Abbreviation	Recombinant Human XPNPEP1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9NQW7
Alias	Aminoacylproline aminopeptidaseCytosolic aminopeptidase PSoluble aminopeptidase P ;sAmpX-Pro aminopeptidase 1X-prolyl aminopeptidase 1, soluble
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	PPKVTSELLRQLRQAMRNSEYVTEPIQAYIIPSGDAHQSEYIAPCDCRRAFVSG FDGSAGTAIITEEHAAMWTDGRYFLQAAKQMDSNWTLMKMGLKDTPTQEDW LVSVLPEGSRVGVDPLIIPTDYWKMAKVLRSAGHHLIPVKENLVDKIWTDRPE RPCKPLLTLGLDYTGISWKDKVADLRLKMAERNVMWVVTALDEIAWLFNLRG SDVEHNPVFFSYAIIGLETIMLFIDGDRIDAPSVKEHLLLDLGLAEYRIQVHPYK SILSELKALCADLSPREKVWVSDKASYAVSETIPKDHRCMPYTPICIAKAVKN SAESEGMRRAHIKDAVALCELFNWLEKEVPKGGVTEISAADKAEEFRRQQADF VDLSFPTISSTGPNGAIHYAPVPETNRTLSDLDEVYLIDSGAQYKDGTDDVTRTM HFGTPTAYEKECFTYVLKGHIAVSAAVFPTGTKGHLLDSFARSALWDSGLDYL HGTGHGVGSFLNVHEGPCGISYKTFSDLEAGMIVTDEPGYYEDGAFGIRIE NVVLVVPVKTKYNFNNRGS�TFEPLTLVPIQTKMIDVDSLTDKECDWLNNYHLT CRDVIGKELQKQGRQEALWLIRETQPISKQH
Research Area	Metabolism
Source	E.coli
Target Names	XPNPEP1
Expression Region	2-623aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	85.8kDa
Protein Length	Full Length of Mature Protein



Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The expression region of this recombinant Human XPNPEP1 covers amino acids 2-623. This XPNPEP1 protein is expected to have a theoretical molecular weight of 85.8 kDa. The XPNPEP1 protein was expressed in e.coli. The N-terminal 6xHis-SUMO tag was fused into the coding gene segment of XPNPEP1, making it easier to detect and purify the XPNPEP1 recombinant protein in the later stages of expression and purification.

Human Xaa-Pro aminopeptidase 1 (XPNPEP1), also known as aminopeptidase P, belongs to the M1 family of metallopeptidases. XPNPEP1 primarily functions in the hydrolysis of amino-terminal amino acid residues from peptides, particularly those with Xaa-Pro or Xaa-Ala sequences. It plays a role in the regulation of bioactive peptides and has been implicated in various physiological processes, including blood pressure regulation and sodium homeostasis. XPNPEP1 is expressed in tissues such as the kidney, where it participates in the degradation of peptides involved in these processes. Understanding XPNPEP1's functions contributes to insights into peptide metabolism and its potential implications for human health.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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