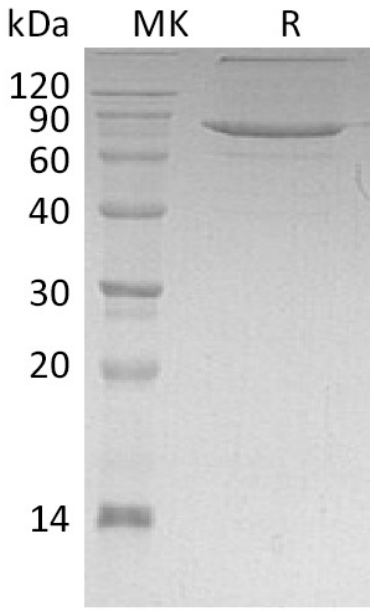
Product Name: Recombinant Human XPNPEP1 (C-6His)
Catalog #: PEH0056

Summary

Name	Aminopeptidase P1/XPNPEP1
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Xaa-Pro Aminopeptidase 1 is produced by our E.coli expression system and the target gene encoding Pro2-His623 is expressed with a 6His tag at the C-terminus.
Accession #	Q9NQW7
Host	E.coli
Species	Human
Predicted Molecular Mass	70.6 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM PB, 8% Sucrose, 100mM NaCl, 10% Glycerol, 0.05% Tween80, 0.02% Tween20, pH 7.5.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

Product Name: Recombinant Human XPNPEP1 (C-6His)
Catalog #: PEH0056



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

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.

Note

For Research Use Only , Not for Diagnostic Use.