Recombinant Human XPNPEP1 Protein

Catalog No.: RP03206LQ

Sequence Information

Species
Human

Gene ID
7511

Swiss Prot
Q9NQW7

Tags
C-His

Synonyms
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

Product Information

Source
E. coli

Purification
≥ 85 % as determined by SDS-PAGE.

Calculated MW
70.6 KDa

Observed MW
69-85 KDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 20mM PB, 8% Sucrose, 100mM NaCl, 10% Glycerol, 0.05% Tween80, 0.02% Tween20, pH 7.5. Contact us for customized product form or formulation.

Reconstitution

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.

Basic Information

Description
Recombinant Human XPNPEP1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Pro2-His623) of Human XPNPEP1 (Accession #NP_001311061.1) fused with 6×His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

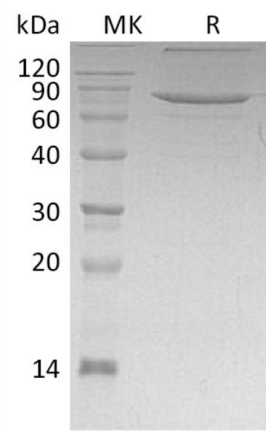
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Human XPNPEP1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.