

Product Data Sheet

Product Name: XPNPEP1 Human
 Cat. No.: GP22402
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	<p>X-Prolyl Aminopeptidase (Aminopeptidase P) 1; Soluble;XPNPEPL; SAMP; X-Prolyl Aminopeptidase 1; Soluble; AminoacylprolineAminopeptidase; Cytosolic Aminopeptidase P; Soluble Aminopeptidase P; X-ProAminopeptidase 1; EC 3.4.11.9; XPNPEPL1; X-Prolyl Aminopeptidase(Aminopeptidase P)-Like; Aminopeptidase P; Cytosolic; Xaa-Pro Aminopeptidase 1;XPNPEP; APP1; Xaa-Pro aminopeptidase 1.</p>		
Amino Acid Sequence	<p>MGSSHHHHHSSGLVPRGSH MGSEFELRRQ ASMPPKVTSE LLRQLRQAMR NSEYVTEPIQ AYIIPSGDAH QSEYIAPCDCRRAFVSGFDG SAGTAITEE HAAMWTDGRY FLQAAKQMDS NWTLMKMKGLK DTPTQEDWL SVLPEGSRVGVDP LIPTDY WKKMAKVLRS AGHHLIPVKE NLVDKIWTDR PERPCKPLLT LGLDYTGISW KDKVADLRLKMAERNVMWFV VTALDEIAWL FNLRGSDVEH NPVFFSYAII GLETIMLFID GDRIDAPSVK EHLLLDLGLAEYRIQVHPY KSILSELKAL CADLSPREKV WVSDKASYAV SETIPKDHRC CMPYTPICIA KAVKNSAESEGMRRRAHIKDA VALCELFNWL KEKVPKGGVT EISAADKAAE FRRQQADFVD LSFPTISSTG PNGAIIHYAPVPETNRTL SL DEVYLIDSGA QYKDGTTDVT RTMHFGTPTA YEKECFTYVL KGHIAVSAAV FPTGTKGHLLDSFARSALWD SGLDYLHGTG HGVGSFLNVH EGPCGISYKT FSDEPLEAGM IVTDEPGYYE DGAFGIRIENVVLPVVKTK YNFNNRGS LTFEPLTLVPIQ TKMIDVDSL TDKECDWLNNY HLTCRDVIGK ELQKQGRQEAL EWLIRETQP ISKQH.</p>		
Formulation	<p>XPNPEP1 protein solution (1mg/ml) containing Phosphatebuffered saline (pH7.4) and 20% glycerol.</p>		

Introduction

X-Prolyl Aminopeptidase-1, also known as XPNPEP1 isa member of the peptidase M24B

Caution: Product has not been fully validated for medical applications. For research use only.

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family. XPNPEP1 encodes the cytosolic form of a metalloaminopeptidase which catalyzes the cleavage of the N-terminal amino acid adjacent to a proline residue. Furthermore, XPNPEP1 plays a role in degradation as well as maturation of tachykinins, neuropeptides and peptide hormones.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

XPNPEP1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 655 amino acids (1-623 a.a) and having a molecular mass of 73.4kDa. XPNPEP1 is fused to a 32 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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