

Aminopeptidase P1 Protein, Human (His)

Cat. No.:	HY-P7498
Synonyms:	rHuAminopeptidase P1, His; XPNPEP1; Aminopeptidase P1
Species:	Human
Source:	E. coli
Accession:	Q9NQW7 (P2-Q622)
Gene ID:	7511
Molecular Weight:	Approximately 77.0 kDa

PROPERTIES

AA Sequence

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PPKVTSELLR   QLRQAMRNSE   YVTEPIQAYI   IPSGDAHQSE
YIAPCDCRRA   FVSGFDGSAG   TAIITEEHAA   MWTDGRYFLQ
AAKQMDSNWT   LMKMGLKDTP   TQEDWLVSVL   PEGSRVGVDP
LIIPTDYWKK   MAKVLR SAGH   HLI PVKENLV   DKIWTD RPER
PCKPLLT LGL   DYTGISWKDK   VADLRLKMAE   RNVMWFV VTA
LDEIAWLFNL   RGS DVEHNPV   FFSYAIIGLE   TIMLFIDGDR
IDAPSVKEHL   LLDLGLEAEY   RIQVHPYKSI   LSELKALCAD
LSPREKVVVS   DKASYAVSET   IPKDHRCMP    YTPICIAKAV
KNSAESEGMR   RAHIKDAVAL   CELFNWLEKE   VPKGGVTEIS
AADKAE EFR   QQADFVDLSF   PTISSTG PNG   AIIHYAPVPE
TNRTL SLDEV   YLIDSGAQYK   DGT TDVTRTM   HFGTPTAYEK
ECFTYV LKGH   IAVSAAVFPT   GTKGHL LDSF   ARSALWDSGL
DYLHGTGHGV   GSFLNVHEGP   CGISYKTFSD   EPLEAGMIVT
DEPGYYEDGA   FGIRIENVVL   VVPVKTKYNF   NNRGSLTFEP
LTLVPIQTKM   IDVDSLTDKE   CDWLNNYHLT   CRDVI GKELQ
KQGRQEAL EW   LIRETQPISK   Q
  
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Biological Activity

The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance

Solution.

Formulation

Supplied as a 0.2 µm filter solution of 20 mM Tris-HCl, 10% Glycerol, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

N/A

Storage & Stability

Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Shipping

Shipping with dry ice.

DESCRIPTION

Background

Aminopeptidase P1 (APP1) has been identified in human leukocytes, human platelets, rat brain, and guinea pig serum. This enzyme exhibits broad substrate specificity for peptides of diverse sizes. Deficiency in APP activity has been known to cause human peptiduria, which is the massive urinary excretion of undigested imino-oligopeptide^[1].

REFERENCES

[1]. Yoon SH, et al. Developmental retardation, microcephaly, and peptiduria in mice without aminopeptidase P1. *Biochem Biophys Res Commun*. 2012 Dec 14;429(3-4):204-9.

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

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