
Product Data Sheet

Product Name: ANPEP Mouse

Cat. No.: GP26123

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition with Ice Packs

Synonyms Anpep, AP-M, AP-N, Apn, Cd13, P150, mAPN, Alanyl aminopeptidase, Aminopeptidase M, Membrane protein p161, Microsomal aminopeptidase, CD13, Lap-1, Lap1, aminopeptidase N.

ADPYAQEKNR NAENSATAPT LPGSTSATTA TTTPAVDESK PWNQYRLPKT
 LIPDSYRVIL RPYLTPNNQG LYIFQGNSTV RFTCNQTTDV IIIHSSKLLNY
 TLKGNHRVVL RTLDGTPAPN IDKTELVERT EYLVVHLQGS LVEGRQYEMD
 SQFQGELADD LAGFYRSEYM EGDVKKVVAT TQMQAADARK SFPCFDEPAM
 KAMFNITLIY PNNLIALSNM LPKESKPYPE DPSCMTEFH STPKMSTYLL
 AYIVSEFKNI SSVSANGVQI GIWARPSAID EGQGDYALNV TGPILNFFAQ
 HYNTSYPLPK SDQIALPDFN AGAMENWGLV TYRESSLVFD SQSSSISNKE
 RVVTVIAHEL AHQWFGNLVT VAWWNDLWLN EGFASYVEYL GADYAEPTWN
 LKDLMVLNDV YRMAVDALA SSHPLSSPAD EIKTPDQIME LFDSITYSKG
 ASVIRMLSSF LTEDLFKKGL SSYLHTYQYS NTVYLDLWEH LQKAVNQQT
 VQPPATVRTI MDRWILQMGF PVITVNTNTG EISQKHFLLD SKSNVTRPSE
 FNYIWIPIIP FLKSGQEDHY WLDVEKNQSA KFQTSSENEWI LLNINVTGYY
 LVNYDENNWK KLQNLQTDL SVIPVINRAQ IIHDSFNLAS AKMIPITLAL
 DNTLFLVKEA EYMPWQAALS SLNYFTLMFD RSEVYGPMPKR YLKKQVTPLF
 FYFQNRNTNW VNRPPTLMEQ YNEINAISTA CSSGLKECRD LVVELYSQWM
 KNPNNNTIHP NLRSTVYCNA IAFGGEEWN FAWEQFRNAT LVNEADKLRS
 ALACSKDVWI LNRYLSYTLN PDYIRKQDTT STIISIASNV AGHPLVWDFV
 RSNWKKLFEN YGGGSFSFAN LIQGVTRRFS SEFELQQLEQ FKADNSATGF
 GTGTRALEQA LEKTRANIDW VKENKDAVFK WFTENSSHHH HHH

Amino Acid Sequence

Formulation ANPEP protein solution (0.5mg/ml) contains PBS (pH 7.4) and 10% glycerol.

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

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ANPEP or aminopeptidase N, is an enzyme, found in the small-intestinal and renal microvillar membrane and other plasma membranes. The enzyme has a critical part in the digestion of peptides after their hydrolysis by gastric and pancreatic proteases. ANPEP is also part of the processing of different peptides as well as peptide hormones, neuropeptides & chemokines. The protein takes part in angiogenesis, enhancing cholesterol crystallization & amino acid transport by formatting with SLC6A19 transport protein and regulating its activity.

Biological Activity

Specific activity is > 4,000 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1 pmole of H-AlaAMC to Alanine and AMC per minute at pH 7.5 at 25°C.

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

ANPEP Mouse produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 943 amino acids (33-966 a.a.) and having a molecular mass of 107.5 kDa. ANPEP is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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