

## 32-6665: ANPEP Mouse

**Application :** Functional Assay

**Alternative Name :** Anpep, AP-M, AP-N, Apr, Cd13, P150, mAPN, Alanyl aminopeptidase, Aminopeptidase M, Membrane protein p161, Microsomal aminopeptidase, CD13, Lap-1, Lap1, aminopeptidase N.

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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.

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.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 95.0% as determined by SDS-PAGE.

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

**Storage condition :** 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.

**Amino Acid :** ADPYAQEKNR NAENSATAPT LPGSTSATTA TTTPAVDESK PWNQYRLPKT LIPDSYRVIL RPYLTPNNQG LYIFQGNSTV RFTCNQTTDV IIIHSKLLNY TLKGNHRVVL RTLDGTPAPN IDKTELVERT EYLVVHLQGS LVEGRQYEMD SQFQGELADD LAGFYRSEYM EGDVKKVVAT TQMQAADARK SFPCFDEPAM KAMFNITLIY PNNLIALS NM LPKESKPYPE DPSCTMTEFH STPKMSTYLL AYIVSEFKNI SSVSANGVQI GIWARPSAID EGQGDYALNV TGPILNFFAQ HYNTSYPLPK SDQIALPDFN AGAMENWGLV TYRESSLVFD SQSSSISNKE RVVTVIAHEL AHQWFGNLVT VAWWNDLWLN EGFASYVEYL GADYAAPTWN LKDLMLVNDV YRVMVDALA SSHPLSSPAD EIKTPDQIME LFDSITYSKG ASVIRMLSSF LTEDLFKKGL SSYLHTYQYS NTVYLDLWEH LQKAVNQQA VQPPATVRTI MDRWILQMGF PVITVNTNTG EISQKHFLD SKSNVTRPSE FNYIWIPIPI FLKSGQEDHY WLDVEKNQSA KFQTSSEWI LLNINVTGY LVNYDENNWK KLQNLQTDL SVIPVINRAQ IHDSEFNLAS AKMIPITLAL DNTLFLVKEA EYMPWQAALS SLNYFTLMFD RSEVYGPMPK RYLKQVTPLF FYFQNRNINW VNRPPTLMEQ YNEINAISTA CSSGLKECRD LVELYSQWM KNPNNNTIHP NLRSTVYCNA IAFGGEEWN FAWEQFRNAT LVNEADKLR ALACSKDVWI LNRYLSYTLN PDYIRKQD TT STIISIASNV AGHPLVWDFV RSNWKKLFEN YGGGSFSFAN LIQGVTRRF SFELEQLQEQ FKADNSATGF GTGTRALEQA LEKTRANIDW VKENKDAVFK WFTENSSHHH HHH

### Application Note

Specific activity is > 4,000 pmol/min/µg, 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.