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**Product Data Sheet**


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Product Name: LAP3 Human  
 Cat. No.: GP21860  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Leucine Aminopeptidase 3; Peptidase S; PEPS; ProlineAminopeptidase; Leucyl Aminopeptidase; ProlylAminopeptidase; EC 3.4.11.1; LAP-3; LAPEP; Epididymis Secretory Protein Li 106;Cytosol Aminopeptidase; EC 3.4.11.5; HEL-S-106; EC 3.4.11; LAP; Cytosolaminopeptidase; Leucine aminopeptidase 3; Leucyl aminopeptidase; Prolineaminopeptidase; Prolyl aminopeptidase.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSHMFLPLPAAG RVVRRRLAVR RFGSRSLSTA          DMTKGLVLGI YSKEKEDDVP QFTSAGENFD KLLAGKLRETLNISGPPLKA          GKTRTFYGLH QDFPSVVLVG LGKKAAGIDE QENWHEGKEN IRAAVAAGCR          QIQDLELSSVEVDPCGDAQA AAEGAVLGLY EYDDLKQKKK MAVSAKLYGS          GDQEAWQKGV LFASGQNLAR QLMETPANEMTPTRFAEIIIE KNLKSASSKT          EVHIRPKSWI EEQAMGSFLS VAKGSDEPPV FLEIHYKGGSP          NANEPPLVFGKGITFDSSG ISIKASANMD LMRADMGGAA TICSIVSAA          KLNLPINIIG LAPLCENMPS GKANKPGDVVRAKNGKTIQV DNTDAEGRLI          LADALCYAHT FNPKVILNAA TLTGAMDVAL GSGATGVFTN          SSWLWNKLFEASJETGDRVW RMPLFEHYTR QVDCQLADV NNIGKYRSAG          ACTAAFLKE FVTHPKWAHL DIAGVMTNKDEVPYLRKGMT GRPTRTLIEF          LLRFSQDNA.</p>		
Formulation	LAP3 protein solution (0.5mg/ml) containing 20mMTris-HCl(pH8.5), 50% glycerol, 5mM DTT and 1mM EDTA.		

**Introduction**

Leucine Aminopeptidase 3 also known as LAP3 is a member of the peptidaseM17 family. LAP3 is implicated in the processing as well as regular turnover of intracellular proteins. LAP3 catalyzes the removal of unsubstituted N-terminal amino acids from different

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peptides. LAP3 is responsible of releasing an N-terminal amino acid, Xaa-|-Yaa-, in which Xaa is preferably Leu, but could be other amino acids including Pro although not Arg or Lys, and Yaa may be Pro. Amino acid amides and methyl esters are as well readily hydrolyzed; however rates on arylamides are exceedingly low.

### 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

LAP3 Human Recombinant produced in E. Coli is a single, non-glycosylated polypeptide chain containing 539 amino acids (1-519 a.a) and having a molecular mass of 58.3 kDa. LAP3 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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