

LAP3, 1-519aa, Human, His tag, E.coli

Cat.NO.: TP02780

3th Edition

Synonyms:Cytosol aminopeptidase, HEL-S-106, LAP, LAPEP, PEPS

Description:LAP3 also known as cytosol aminopeptidase. LAP3 presumably involved in the processing and regular turnover of intracellular proteins. This protein catalyzes the removal of unsubstituted N-terminal amino acids from various peptides. It release of an N-terminal amino acid, Xaa-|-Yaa-, in which Xaa is preferably Leu, but may be other amino acids including Pro although not Arg or Lys, and Yaa may be Pro. Amino acid amides and methyl esters are also readily hydrolyzed, but rates on arylamides are exceedingly low. Recombinant human LAP3, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid, In 20mM Tris-HCl(pH8.5) containing 50% glycerol, 5mM DTT, 1mM EDTA

Molecular Weight:58.3kDa (539aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMFLPLPAAGR VVRRRLAVRRFGSRSLSTADMTKGLVLGIYSKEKEDDVPQFTSA
GENFDKLLAGKLRETLNISGPPLKAGKTRTFYGLHQDFPSVVLVGLGKKAAGIDEQENWHEGKENIRAAVAAGCRQ
IQDLELSSVEVDPCGDAQAAAEGAVLGLYEYDDLKQKKMAVSAKLYGSGDQEA WQKGVLFASGQNLARQLMET
PANEMTPTRFAEIIIEKNLKSASSKTEVHIRPKSWIEEQAMGSFLSVAKGSDEPPVFLEIHYKGSNPANEPPLVFGKG
ITFDSSGISIKASANMDLMRADMGAATICS AIVSAAKLNLPINIIGLAPLCENMPSGKANKPGDVVRAKNGKTIQVDN
TDAEGRLLADALCYAHTFNPKVILNAATLTGAMDVALGSGATGVFTNSSWLWNKLF EAS IETGDRVWRMPLFEHY
TRQVVDCQLADVNNIGKYRSAGACTAA AFLKEFVTHPKWAHLDIAGVMTNKDEVPYLRKGMTGRPTRTLIEFLLR
SQDNA

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.