

Active Recombinant Full Length Human LAP3 Protein, C-Flag-tagged

Cat. No. LAP3-108HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human LAP3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Presumably involved in the processing and regular turnover of intracellular proteins. Catalyzes the removal of unsubstituted N-terminal amino acids from various peptides.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	LAP3 activity verified in a biochemical assay: Leucine aminopeptidase 3 (LAP3, TP309052) activity was measured in a fluorescent biochemical assay. LAP3 catalyzes the removal of unsubstituted N-terminal amino acids from various peptides and is most active on leucine. LAP3 activity was measured in a 100 µreaction mixture containing 1 mM L-leucine 7-amido-4-methyl coumarin (Leu-AMC), 50 mM Tris, pH 8.0, 4 mM MgCl ₂ , and 1 mM MnCl ₂ . Cleavage of leucine from the AMC moiety results in a strong increase in fluorescence intensity. Fluorescence was measured over time with an excitation wavelength of 380 nm and an emission wavelength of 460 nm. The activity of the enzyme in this system remained constant over six hours.
Molecular Mass	56 kDa

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AA Sequence	MFLPLPAAGR VVRR LAVRRFGSRSLSTADMTKGLVLGIYSKEKEDDVPQFTSAGE NFDKLLAGKLRET LNISGPPLKAGKTRTFYGLHQDFPSVVLVGLGKKAAGIDEQEN WHEGKENIRA AAVAAGCRQIQDLELSSV EVDPCGDAQAAAEGAVLGLYEYDDLKQK KKMAVS AKLYGSGDQEA WQKGVLFASGQNLARQLMETPANEM TPTRFAEIIIEKNLK SASSKTEVHIRPKSWIEEQAMGSFLSVAKGSDEPPVFLEIHYKGSPNANEPPLV FV G KGITFDSGGISIKASANMDLMRADMGGAATICS AIVSAAKLNL PINIIGLAPLCENMPS GKANKPGDVV RAKNGKTIQVDNTDAEGR LILADALCYAHTFNPKVILNAATLTGAMD VALGSGATGVFTNSSWLWNKLFE ASIETGDRVWRMPLFEHYTRQVVDCQLADVNN IGKYRSAGACTAA AFLKEFVTHPKWAHLDIAGVMTNKD EVPYLRKGMTGRPTRTLIEFLRFSQDNATRTRPLEQKLISEEDLAANDILDYKDDDD KV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease
Protein Pathways	Arginine and proline metabolism, Glutathione metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name LAP3 leucine aminopeptidase 3 [Homo sapiens (human)]

Official Symbol [LAP3](#)

Synonyms LAP; PEPS; LAPEP; HEL-S-106

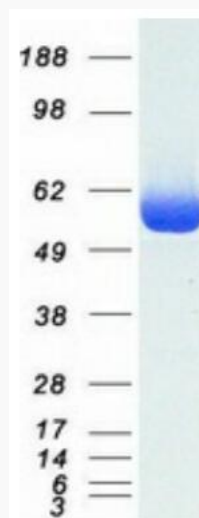
Gene ID [51056](#)

mRNA Refseq [NM_015907.3](#)

Protein Refseq [NP_056991.2](#)

MIM [170250](#)

UniProt ID [P28838](#)



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Coomassie blue staining of purified LAP3 protein.