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Product datasheet for TP309052

LAP3 (NM_015907) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human leucine aminopeptidase 3 (LAP3), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209052 protein sequence Red=Cloning site Green=Tags(s) MFLLPLPAAGRVVVRRLAVRRFGSRSLSTADMTKGLVLGIYSKEKEDDVPQFTSAGENFDKLLAGKLRET LNISGPPLKAGKTRTFYGLHQDFPSVVLVGLGKKAAGIDEQENWHEGKENIRAAVAAGCRQIQDLELSSV EVDPCGDAQAAAEGAVLGLYEYDDLKQKKKMAVSAKLYGSGDQEAWQKGVLFASGQNLARQLMETPANEM TPTRFAEIIEKNLKSASSKTEVHIRPKSWIEEQAMGSFLSVAKGSDEPPVFLEIHYKGSPNANEPPLVFV GKGITFDSGGISIKASANMDLMRADMGGAATICSAIVSAAKLNLPINIIGLAPLCENMPSGKANKPGDVV RAKNGKTIQVDNTDAEGRLILADALCYAHTFNPKVILNAATLTGAMDVALGSGATGVFTNSSWLWNKLFE ASIETGDRVWRMPLFEHYTRQVVDCQLADVNNIGKYRSAGACTAAAFLKEFVTHPKWAHLDIAGVMTNKD EVPYLRKGMTGRPTRTLIEFLLRFSQDNA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	56 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	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 µl reaction mixture containing 1 mM L-leucine 7-amido-4-methyl coumarin (Leu-AMC), 50 mM Tris, pH 8.0, 4 mM MgCl2, and 1 mM MnCl2. 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.

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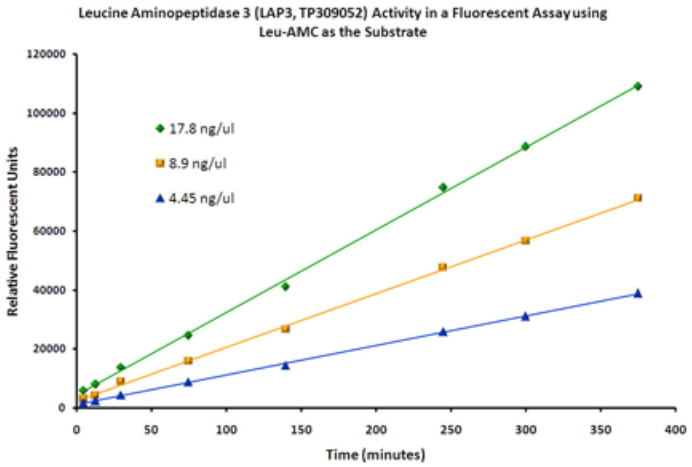
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_056991
Locus ID:	51056
UniProt ID:	P28838
RefSeq Size:	2100
Cytogenetics:	4p15.32
RefSeq ORF:	1557
Synonyms:	HEL-S-106; LAP; LAPEP; PEPS
Summary:	Presumably involved in the processing and regular turnover of intracellular proteins. Catalyzes the removal of unsubstituted N-terminal amino acids from various peptides.[UniProtKB/Swiss-Prot Function]
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Arginine and proline metabolism, Glutathione metabolism, Metabolic pathways

Product images:



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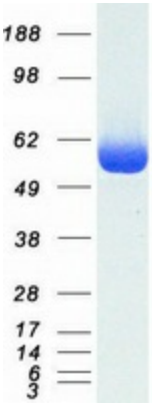

Coomassie blue staining of purified LAP3 protein (Cat# TP309052). The protein was produced from HEK293T cells transfected with LAP3 cDNA clone (Cat# [RC209052]) using MegaTran 2.0 (Cat# [TT210002]).

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