

LAP3 Protein, Human, Recombinant (His)

General Information

Synonyms:	HEL-S-106;leucine aminopeptidase 3;PEPS;LAP;LAPEP
Protein Construction:	A DNA sequence encoding the human LAP3 (NP_056991.2) (Met1-Ala519) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P28838-1
Molecular Weight:	57.6 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 500 mM NaCl, 20% glycerol, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

LAP3 (Leucine Aminopeptidase 3) is a Protein Coding gene. 2 alternative initiation human isoforms have been reported. LAP3, belonging to the peptidase M17 family, has been proved to catalyze the hydrolysis of leucine residues. It catalyzes the removal of unsubstituted N-terminal amino acids from various peptides and is presumably involved in the processing and regular turnover of intracellular proteins. Leucine aminopeptidases are involved in many pathological disorders and regulate cell proliferation, invasion, and/or angiogenesis of tumors.

A DRUG SCREENING EXPERT

A recent study showed that LAP3 is highly expressed in several malignant and affects tumor angiogenesis. LAP3 is widely expressed in the appendix, lymph node, and other tissues. Diseases associated with LAP3 include Bacterial Vaginosis and Trichomoniasis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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