LAP3 Protein, Human (HEK293, His)

Cat. No.:	HY-P74780
Synonyms:	Cytosol aminopeptidase; LAP-3; Peptidase S; LAP3; LAPEP; PEPS
Species:	Human
Source:	HEK293
Accession:	P28838/NP_056991.2 (M1-A519)
Gene ID:	51056
Molecular Weight:	Approximately 57.6 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, 20% Glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Leucine aminopeptidase 3 (LAP3) is a cytosolic metallopeptidase crucial for catalyzing the removal of unsubstituted N-terminal hydrophobic amino acids from various peptides. The enzymatic activity of LAP3 is contingent upon the presence of Zn(2+) ions, and the association with other cofactors can modulate its substrate specificity. In the presence of Mn(2+), LAP3 exhibits a specific Cys-Gly hydrolyzing activity, targeting Cys-Gly-S-conjugates. This peptidase is notably involved in the metabolism of glutathione and the degradation of glutathione S-conjugates, suggesting a role in regulating the cellular redox status. The diverse substrate specificity and involvement in cellular processes underscore the significance of LAP3 in peptide metabolism and cellular redox control.

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