

TPP1 Protein, Mouse (sf9, His)

Cat. No.:	HY-P76112
Synonyms:	Tripeptidyl-Peptidase 1; LPIC; Tripeptidyl Aminopeptidase; TPP-I; CLN2
Species:	Mouse
Source:	Sf9 insect cells
Accession:	O89023 (M1-P562)
Gene ID:	12751
Molecular Weight:	Approximately 60.9 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 μ m filtered solution of 20 mM Tris, 150 mM NaCl, pH 7.5, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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	TPP1, a lysosomal serine protease, exhibits tripeptidyl-peptidase I activity, as evidenced by its involvement in lysosomal protein degradation. While its precise substrate specificity is not yet fully elucidated, TPP1 is thought to function as a non-specific lysosomal peptidase, generating tripeptides from the breakdown products produced by other lysosomal proteinases. Notably, TPP1 requires substrates with an unsubstituted N-terminus, further highlighting its role in processing and hydrolyzing peptides within the lysosomal environment.
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Caution: Product has not been fully validated for medical applications. For research use only.

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