

Recombinant Human TPP1 protein, His-tagged

Cat. No. TPP1-8094H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TPP1 aa. (Met1~Pro320) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Pro320
Description	This gene encodes a member of the sedolisin family of serine proteases. The protease functions in the lysosome to cleave N-terminal tripeptides from substrates, and has weaker endopeptidase activity. It is synthesized as a catalytically-inactive enzyme which is activated and auto-proteolyzed upon acidification. Mutations in this gene result in late-infantile neuronal ceroid lipofuscinosis, which is associated with the failure to degrade specific neuropeptides and a subunit of ATP synthase in the lysosome.
Form	Freeze-dried powder
Molecular Mass	38kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>92%

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Characteristic	The isoelectric point is 5.7.
Applications	Positive Control; Immunogen; SDS-PAGE; WB
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TPP1 tripeptidyl peptidase 1 [Homo sapiens (human)]
Official Symbol	TPP1
Synonyms	CLN2; GIG1; LPIC; SCAR7; TPP-1; cell growth-inhibiting gene 1 protein; growth-inhibiting protein 1; lysosomal pepstatin; insensitive protease; tripeptidyl aminopeptidase; tripeptidyl peptidase I; tripeptidyl-peptidase 1

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Gene ID	1200
mRNA Refseq	NM_000391.3
Protein Refseq	NP_000382.3
UniProt ID	O14773
SDS-PAGE	