

Recombinant Human TPP1 cell lysate

Cat. No. TPP1-449HCL Lot. No. (See product label)

SPECIFICATION

Product Overview	Human TPP1 / CLN2 derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Insect Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

reducing agent prior to heating.

Stability

Samples are stable for up to twelve months from date of receipt at -80°C

Storage Buffer

50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF

Storage Instruction

Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name

TPP1 tripeptidyl peptidase I [Homo sapiens]

Official Symbol

TPP1

Synonyms

TPP1; tripeptidyl peptidase I; ceroid lipofuscinosis, neuronal 2, late infantile (Jansky Bielschowsky disease) , CLN2; tripeptidyl-peptidase 1; TPP I; tripeptidyl aminopeptidase; growth-inhibiting protein 1; cell growth-inhibiting gene 1 protein; lysosomal pepstatin insensitive protease; CLN2; GIG1; LPIC; TPP-1; MGC21297;

Gene ID

1200

mRNA Refseq

NM_000391

Protein Refseq

NP_000382

MIM

607998

UniProt ID

O14773

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Chromosome Location	11p15.4
Pathway	Activation of Chaperone Genes by XBP1(S), organism-specific biosystem; Activation of Chaperones by IRE1alpha, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Unfolded Protein Response, organism-specific biosystem;
Function	endopeptidase activity; endopeptidase activity; metal ion binding; peptidase activity; peptide binding; protein binding; serine-type endopeptidase activity; serine-type peptidase activity; tripeptidyl-peptidase activity; tripeptidyl-peptidase activity;

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