

Recombinant Full Length Human PPT1 Protein, GST-tagged

Cat. No. PPT1-29543TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PPT1 protein with an N terminal proprietary tag; Predicted MW 59.73 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	1-306 a.a.
Description	The protein encoded by this gene is a small glycoprotein involved in the catabolism of lipid-modified proteins during lysosomal degradation. The encoded enzyme removes thioester-linked fatty acyl groups such as palmitate from cysteine residues. Defects in this gene are a cause of infantile neuronal ceroid lipofuscinosis 1 (CLN1, or INCL) and neuronal ceroid lipofuscinosis 4 (CLN4). Two transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	59.730kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

Sequences of amino acids

MASPGCLWLLAVALLPWTCASRALQHLDPPAPLPLVIWHG MGDSCCNPLSMGAIK
KMVEKKIPGIYVLSLEIGKTLMEDV ENSFFLNVNSQVTTVCQALAKDPKLQQGYNAM
GFSQGGQF LRAVAQRCPSPPMINLISVGGQHQQGVFGLPRCPGESSHIC DFIRKTLN
AGAYSKVVQERLVQAEYWHDPIKEDVYRNHSI FLADINQERGINESYKKNLMALKKF
VMVKFLNDSIVDPVD SEWFGFYRSGQAKETIPLQETSLYTQDRLGLKEMDNAGQL
VFLATEGDHLQLSEEWFYAHIIPFLG

Sequence Similarities

Belongs to the palmitoyl-protein thioesterase family.

GENE INFORMATION

Gene Name [PPT1 palmitoyl-protein thioesterase 1 \[Homo sapiens \]](#)

Official Symbol [PPT1](#)

Synonyms PPT1; palmitoyl-protein thioesterase 1; PPT; ceroid lipofuscinosis; neuronal 1; infantile; CLN1; INCL;

Gene ID [5538](#)

mRNA Refseq [NM_000310](#)

Protein Refseq [NP_000301](#)

MIM [600722](#)

Uniprot ID [P50897](#)

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Chromosome Location	1p32
Pathway	Fatty acid elongation, organism-specific biosystem; Fatty acid elongation, conserved biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	hydrolase activity; palmitoyl-(protein) hydrolase activity; palmitoyl-(protein) hydrolase activity; palmitoyl-(protein) hydrolase activity; palmitoyl-CoA hydrolase activity;

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