

PPT1 Protein, Human (HEK293, His)

Cat. No.:	HY-P71230
Synonyms:	Palmitoyl-protein thioesterase 1; PPT-1; Palmitoyl-protein hydrolase 1; PPT1
Species:	Human
Source:	HEK293
Accession:	P50897 (D28-G306)
Gene ID:	5538
Molecular Weight:	34-41 kDa

PROPERTIES

AA Sequence	D P P A P L P L V I W H G M G D S C C N P L S M G A I K K M V E K K I P G I Y V L S L E I G K T L M E D V E N S F F L N V N S Q V T T V C Q A L A K D P K L Q Q G Y N A M G F S Q G G Q F L R A V A Q R C P S P P M I N L I S V G G Q H Q G V F G L P R C P G E S S H I C D F I R K T L N A G A Y S K V V Q E R L V Q A E Y W H D P I K E D V Y R N H S I F L A D I N Q E R G I N E S Y K K N L M A L K K F V M V K F L N D S I V D P V D S E W F G F Y R S G Q A K E T I P L Q E T S L Y T Q D R L G L K E M D N A G Q L V F L A T E G D H L Q L S E E W F Y A H I I P F L G
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150 mM NaCl, 10% Glycerol, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	PPT1, or palmitoyl-protein thioesterase 1, plays a crucial role in lysosomal degradation by efficiently removing thioester-linked fatty acyl groups, particularly palmitate, from modified cysteine residues in proteins or peptides. This enzymatic activity is highly specific, exhibiting a preference for acyl chain lengths ranging from 14 to 18 carbons. The targeted removal of these acyl groups contributes to the breakdown of proteins during lysosomal degradation, emphasizing PPT1's
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significance in cellular processes related to lipid metabolism and protein turnover.

Caution: Product has not been fully validated for medical applications. For research use only.

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