

Datasheet for ABIN7198354 **TPP1 Protein (His tag)**



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Overview

Quantity:	50 µg
Target:	TPP1
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TPP1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human TPP1/CLN2 Protein (His Tag)(Active)
Sequence:	Met 1-Pro 563
Characteristics:	A DNA sequence encoding the pro form of human TPP1 (AAH14863.1) (Met 1-Pro 563) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by the cleavage of AlaAlaPheAMC. The specific activity is > 850 pmoles/min/µg.

Target Details

Target:	TPP1
Alternative Name:	TPP1/CLN2 (TPP1 Products)

Target Details

Background:	<p>Background: Tripeptidyl-peptidase 1 (TPP1 / CLN2) is 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. TPP1 / CLN2 May act as a non-specific lysosomal peptidase which generates tripeptides from the breakdown products produced by lysosomal proteinases. Defects in TPP1 / CLN2 are the cause of neuronal ceroid lipofuscinosis type 2 (CLN2), a form of neuronal ceroid lipofuscinosis which is associated with the failure to degrade specific neuropeptides and a subunit of ATP synthase in the lysosome. Neuronal ceroid lipofuscinoses are progressive neurodegenerative, lysosomal storage diseases characterized by intracellular accumulation of autofluorescent liposomal material, and clinically by seizures, dementia, visual loss, and/or cerebral atrophy.</p> <p>Synonym: Tripeptidyl-Peptidase 1, TPP-1, Cell Growth-Inhibiting Gene 1 Protein, Lysosomal Pepstatin-Insensitive Protease, LPIC, Tripeptidyl Aminopeptidase, TPP1, CLN2,GIG1,LPIC,SCAR7,TPP-1</p>
Molecular Weight:	60.7 kDa
Pathways:	Cell Division Cycle , ER-Nucleus Signaling

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>