

RP03205LQ

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Recombinant Human Tripeptidyl-peptidase 1/TPP1 Protein

Catalog No.: RP03205LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Baculovirus-Insect Cells	1200	O14773

Tags

C-His

Synonyms

Tripeptidyl-Peptidase 1; TPP-1; Cell Growth-Inhibiting Gene 1 Protein; Lysosomal Pepstatin-Insensitive Protease; LPIC; Tripeptidyl Aminopeptidase; Tripeptidyl-Peptidase I; TPP-I; TPP1; CLN2

Product Information

Source	Purification
Baculovirus-Insect Cells	≥ 95 % as determined by SDS-PAGE.

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Supplied as a 0.22 μm filtered solution in 20mM Tris, 500mM NaCl, pH 7.4, 10% gly. Contact us for customized product form or formulation.

Reconstitution

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.

Basic Information

Description

Recombinant Human Tripeptidyl-peptidase 1/TPP1 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ser20-Pro563) of Human Tripeptidyl-peptidase 1/TPP1 (Accession #NP_005031.1) fused with 6×His tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

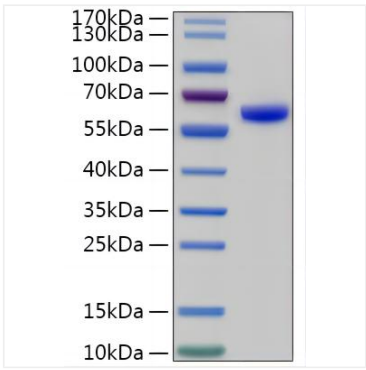
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

Contact

 www.abclonal.com

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Validation Data



Recombinant Human Tripeptidyl-peptidase 1/TPP1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.