

Recombinant Human Tripeptidyl-peptidase 1 /TPP1 Protein

Catalog No.: RP03205LQ

Sequence Information

Species	Gene ID
Human	1200
Swiss Prot	Tags
O14773	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.

Calculated MW	Observed MW
60.7 kDa.	60 kDa.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -70°C

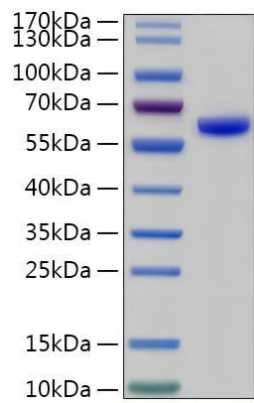
Operational Notes

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

Contact

		400-999-6126
		cn.market@abclonal.com.cn
		www.abclonal.com.cn

Validation Data



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