

TPP1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70980
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
Species:	Human
Source:	HEK293
Accession:	AAH14863.1 (S20-P563)
Gene ID:	1200
Molecular Weight:	Approximately 78.75 kDa

PROPERTIES

AA Sequence

S Y S P E P D Q R R	T L P P G W V S L G	R A D P E E E L S L	T F A L R Q Q N V E
R L S E L V Q A V S	D P S S P Q Y G K Y	L T L E N V A D L V	R P S P L T L H T V
Q K W L L A A G A Q	K C H S V I T Q D F	L T C W L S I R Q A	E L L L P G A E F H
H Y V G G P T E T H	V V R S P H P Y Q L	P Q A L A P H V D F	V G G L H R F P P T
S S L R Q R P E P Q	V T G T V G L H L G	V T P S V I R K R Y	N L T S Q D V G S G
T S N N S Q A C A Q	F L E Q Y F H D S D	L A Q F M R L F G G	N F A H Q A S V A R
V V G Q Q G R G R A	G I E A S L D V Q Y	L M S A G A N I S T	W V Y S S P G R H E
G Q E P F L Q W L M	L L S N E S A L P H	V H T V S Y G D D E	D S L S S A Y I Q R
V N T E L M K A A A	R G L T L L F A S G	D S G A G C W S V S	G R H E F R P T F P
A S S P Y V T T V G	G T S F Q E P F L I	T N E I V D Y I S G	G G F S N V F P R P
S Y Q E E A V T K F	L S S S P H L P P S	S Y F N A S G R A Y	P D V A A L S D G Y
W V V S N R V P I P	W V S G T S A S T P	V F G G I L S L I N	E H R I L S G R P P
L G F L N P R L Y Q	Q H G A G L F D V T	R G C H E S C L D E	E V E G Q G F C S G
P G W D P V T G W G	T P N F P A L L K T	L L N P	

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 20 mM Tris-HCl, 150 mM NaCl, 1 mM CaCl₂, 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

TPP1, a lysosomal serine protease, exhibits tripeptidyl-peptidase I activity, as evidenced by its involvement in lysosomal protein degradation. While its precise substrate specificity is not yet fully elucidated, TPP1 is thought to function as a non-specific lysosomal peptidase, generating tripeptides from the breakdown products produced by other lysosomal proteinases. Notably, TPP1 requires substrates with an unsubstituted N-terminus, further highlighting its role in processing and hydrolyzing peptides within the lysosomal environment.

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

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