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Datasheet for ABIN7198217 Thimet Oligopeptidase 1 Protein (THOP1) (His tag)



Overview

Image

Quantity:	50 µg
Target:	Thimet Oligopeptidase 1 (THOP1)
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Thimet Oligopeptidase 1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse THOP1 Protein (His Tag)(Active)
Sequence:	Lys 2-Cys 687
Characteristics:	A DNA sequence encoding the mouse THOP1 (NP_073144.3) (Lys 2-Cys 687) was fused with a polyhistidine tag at the N-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per μ g of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave a fluorogenic peptide substrate, (7-methoxycoumarin-4-yl)acetyl-Pro-Leu-Gly-Pro-D-Lys(2,4-dinitrophenyl)-OH or Mca-PLGPK(Dnp)-OH.The specific activity is > 100 pmoles/min/µg.

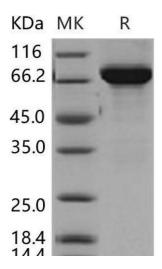
Target Details

Target:

Thimet Oligopeptidase 1 (THOP1)

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Target Details		
Alternative Name:	THOP1 (THOP1 Products)	
Background:	Background: THOP1, also known as Thimet oligopeptidase 1, Thimet oligopeptidase, EC	
	3.4.24.15, or EP24.15, is a zinc(II) endopeptidase implicated in the processing of numerous	
	physiological peptides. As an intracellular enzyme, highly expressed in the brain, kidneys and	
	neuroendocrine tissue, THOP1 has been proposed to metabolize peptides within cells, thereby	
	affecting antigen presentation and G protein-coupled receptor signal transduction. Its	
	substrates is gonadotrophin-releasing hormone (GnRH), an important hypothalamic hormone	
	that regulates the synthesis and release of oestradiol and facilitates female sexual behaviour.	
	THOP1 against toxic effects of Abeta in the early stages of Alzheimer disease (AD) pathology,	
	and suggest that the observed increase in THOP1 expression might be part of a compensatory	
	defense mechanism of the brain against an increased Abeta load.	
	Synonym: Al131655,Al327041,EP24.15	
Molecular Weight:	80.1 kDa	
NCBI Accession:	NP_073144	
Application Details		
Restrictions:	For Research Use only	
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:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.	
	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.	



Western E	Blotting
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Image 1.

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