

Datasheet for ABIN7559103

Thimet Oligopeptidase 1 Protein (THOP1) (AA 1-687) (His tag)



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Overview

Quantity:	1 mg
Target:	Thimet Oligopeptidase 1 (THOP1)
Protein Characteristics:	AA 1-687
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Thimet Oligopeptidase 1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Thop1 Protein expressed in mammalian cells.
Sequence:	<p>MKPPAACAGD VVDAASPAST VNHLRWDLA QQIRALTTQL IEQTKCVYDR VGAQNFEDVS</p> <p>YESTLKALAD VEVITYTVQRN ILDFPQHVSP CKDIRAASTE ADKKLSEFDV EMSMRQDVYQ</p> <p>RVVWLQEKTP KNSLKPEAAR YLERLIKLR RNGLHLPQDT QEKIKNIKKR LSLLCIDFNK</p> <p>NLNEDTTFLP FTREELGGLP EDFLSSLEKA EDGKLKVTLK YPHYFPLLKK CHVPETRRLL</p> <p>EEAFNCRCKE ENCAILKELV SLRAQKSSLL GFHTHADYVL EMNMAKTSQT VATFLDELAQ</p> <p>KLKPLGEQER AVILELKEAE CAKRGLPFDG RIHAWDMRYM MNQVEETRYR VDQNLLEKEYF</p> <p>PMQVVTRGLL AIYQELLGLT FTLEEGAAAW HEDVRLYSVR DAASGEEIGK FYLDLYPREG</p> <p>KYGHAACFGL QPGCLRQDGS RQLAVAAMVA NFKTPDPAP SLLQHDEVET YFHEFGHVMH</p> <p>QLCSQAEFAM FSGTHVERDF VEAPSQMLEN WVWEKEPLMR MSQHYRTGSE APQDLLEKLI</p> <p>KSRQANAGLF NLRQIVLAKV DQVLHTQTD DPAEEYARLC QEILGVPATP GTNMPATFGH</p> <p>LAGGYDAQYY GYLWSEVYSM DMFHTRFKQE GVLSPKVGMD YRTSILRPGG SEDASAMLKQ</p> <p>FLGRDPKQDA FLLSKGLQVE GSEAPAC Sequence without tag. The proposed Purification-Tag</p>

Product Details

is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	Thimet Oligopeptidase 1 (THOP1)
Alternative Name:	Thop1 (THOP1 Products)
Background:	Thimet oligopeptidase (EC 3.4.24.15),FUNCTION: Involved in the metabolism of neuropeptides under 20 amino acid residues long (PubMed:10969067). Involved in cytoplasmic peptide degradation. Able to degrade the amyloid-beta precursor protein and generate amyloidogenic fragments (By similarity). Also acts as a regulator of cannabinoid signaling pathway by mediating degradation of hemopressin, an antagonist peptide of the cannabinoid receptor CNR1 (By similarity). {ECO:0000250 UniProtKB:P24155, ECO:0000250 UniProtKB:P52888, ECO:0000269 PubMed:10969067}.
Molecular Weight:	78.0 kDa

Target Details

UniProt: [Q8C1A5](#)

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months