

Datasheet for ABIN7544436

Thimet Oligopeptidase 1 Protein (THOP1) (AA 1-689) (His tag)



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Overview

Quantity:	1 mg
Target:	Thimet Oligopeptidase 1 (THOP1)
Protein Characteristics:	AA 1-689
Origin:	Human
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 MADAASPCSV VNDLRWDLA QQIEERTREL IEQTKRVYDQ VGTQEFEDVS</p> <p>YESTLKALAD VEVITYTVQRN ILDFPQHVSP SKDIRTASTE ADKKLSEFDV EMSMREDVYQ</p> <p>RIVWLQEKVQ KDSLRPEAAR YLERLIKLR RNGLHLPRET QENIKRIKKK LSLLCIDFNK</p> <p>NLNEDTTFLP FTLQELGGLP EDFLNSLEKM EDGKLKVTLK YPHYFPLKK CHVPETRRKV</p> <p>EEAFNCRCKE ENCAILKELV TLRAQKSRLG GFHTHADYVL EMNMAKTSQT VATFLDELAQ</p> <p>KLKPLGEQER AVILELKRAE CERRGLPFDG RIRAWDMRYM MNQVEETRYC VDQNLKEYF</p> <p>PVQVVTHGLL GIYQELLGLA FHHEEGASAW HEDVRLYTAR DAASGEVVGK FYLDLYPREG</p> <p>KYGHAACFGL QPGCLRQDGS RQIAIAAMVA NFKTKPTADAP SLLQHDEVET YFHEFGHVMH</p> <p>QLCSQAEFAM FSGTHVERDF VEAPSQMLEN WVWEQEPLLR MSRHYRTGSA VPRELLEKLI</p> <p>ESRQANTGLF NLRQIVLAKV DQALHTQTD DPAEEYARLC QEILGVPATP GTNMPATFGH</p> <p>LAGGYDAQYY GYLWSEVYSM DMFHTRFKQE GVLNSKVGMD YRSCILRPGG SEDASAMLRR</p> <p>FLGRDPKQDA FLLSKGLQVG GCEPEPQVC Sequence without tag. The proposed Purification-</p>

Tag 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: Key Benefits:

- 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).

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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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) (Endopeptidase 24.15) (MP78),FUNCTION: Involved in the metabolism of neuropeptides under 20 amino acid residues long. Involved in cytoplasmic peptide degradation (PubMed:7639763, PubMed:17251185). Able to degrade the amyloid-beta precursor protein and generate amyloidogenic fragments (PubMed:7639763, PubMed:17251185). 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:0000269|PubMed:17251185, ECO:0000269|PubMed:7639763}.

Target Details

Molecular Weight: 78.8 kDa

UniProt: [P52888](#)

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