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Recombinant Mouse THOP1 Protein (His Tag)

Catalog No. PKSM040464

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms AI131655;AI327041;EP24.15

Species Mouse

Expression Host Baculovirus-Insect Cells

SequenceLys 2-Cys 687AccessionNP_073144.3Calculated Molecular Weight80.1 kDaObserved molecular weight75 kDaTagN-His

Bioactivity Measured by its ability to cleave a fluorogenic peptide substrate,

 $(7-methoxy coumar in \hbox{-} 4-yl) acetyl-Pro-Leu-Gly-Pro-D-Lys (2, 4-dinitrophenyl)-OH\ or\ and all the pro-Leu-Gly-Pro-D-Lys (2, 4-dinitrophenyl)-OH\ or\ all the pro-Lys (2, 4-$

Mca-PLGPK(Dnp)-OH. The specific activity is > 100 pmoles/min/μg.

Properties

Purity > 90 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage 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.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% glycerol

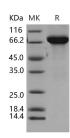
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: <u>www.elabscience.com</u> Email: <u>techsupport@elabscience.com</u>

Elabscience Bionovation Inc.



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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 gonadotrophinreleasing 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.

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