Recombinant Human THOP1 Protein (Asn451-Thr597), His tagged

Cat. No. THOP1-6448H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human THOP1 (Asn451-Thr597) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asn451-Thr597
Description	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.
Form	Lyophilized powder/frozen liquid
Molecular Mass	18.62 kDa

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Purity	> 90 % as determined by SDS-PAGE
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	THOP1 thimet oligopeptidase 1 [Homo sapiens (human)]
Official Symbol	THOP1
Synonyms	THOP1; thimet oligopeptidase 1; thimet oligopeptidase; endopeptidase 24.15; TOP; MP78; EP24.15; MEPD_HUMAN;
Gene ID	7064
mRNA Refseq	NM_003249
Protein Refseq	NP_003240
MIM	601117

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UniProt ID	P52888

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