# **Recombinant Human THOP1 Protein (His Tag)**

Catalog Number: PKSH033105



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

## **Description**

Synonyms Thimet Oligopeptidase; Endopeptidase 24.15; MP78; THOP1

Species Human
Expression Host E.coli

SequenceLys2-Cys689AccessionP52888Calculated Molecular Weight80.0 kDaObserved molecular weight85 kDaTagC-His

## **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per  $\mu g$  of the protein as determined by the LAL method.

Storage Storage Store at  $< -20^{\circ}$ C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping** This product is provided as liquid. It is shipped at frozen temperature with blue

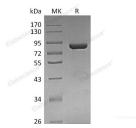
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 500mM NaCl, 50%

Glycerol, pH 7.4.

**Reconstitution** Not Applicable

#### Data



> 95 % as determined by reducing SDS-PAGE.

## **Background**

Thimet Oligopeptidase (THOP1) belongs to the peptidase M3 family which includes neurolysin and mitochondrial intermediate peptidase. THOP1 is located in Cytoplasm. THOP1 is widely expressed in human tissues and can detected in different subcellular locations. THOP1 is preferential cleavage for bonds with hydrophobic residues at P1, P2 and P3' and a small residue at P1' in substrates of 5 to 15 residues. THOP1 is involved in the metabolism of neuropeptides under 20 amino acid residues and degradation of cytoplasmic peptide. In addition, THOP1 also can degrade the beta-amyloid precursor protein and generate amyloidogenic fragments.

#### For Research Use Only

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