# Recombinant Human THOP1 Protein (His Tag)

**Catalog Number: PKSH033105**

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

## Description

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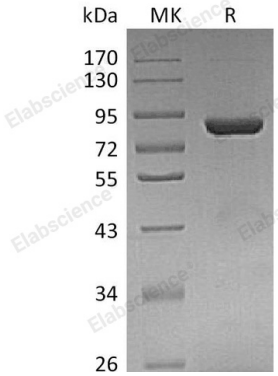
|---|---|
| **Species** | Human |
| **Source** | E.coli-derived Human THOP1 protein Lys2-Cys689, with an C-terminal His |
| **Calculated MW** | 80.0 kDa |
| **Observed MW** | 85 kDa |
| **Accession** | P52888 |
| **Bio-activity** | Not validated for activity |

## Properties

| | |
|---|---|
| **Purity** | > 95 % as determined by reducing SDS-PAGE. |
| **Concentration** | Subject to label value. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Store at < -20°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. |

## 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.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