



Recombinant Protein Technical Manual

Recombinant Human THOP1 Protein (His Tag)

RPES0647

Product Data:

Product SKU: RPES0647

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P52888

Protein Information:

Molecular Mass: 80.0 kDa

AP Molecular Mass: 85 kDa

Tag: C-6His

Bio-activity:

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

Endotoxin: < 1.0 EU per µg 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 PB, 100mM NaCl, 10% Glycerol, pH 7.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Thimet Oligopeptidase; Endopeptidase 24.15; MP78; THOP1

Immunogen Information:

Sequence: Lys2-Cys689

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 be 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.