Recombinant Human THOP1 Protein (His Tag)

Catalog Number:PKSH033105

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

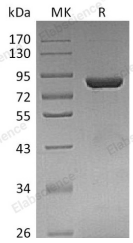
Description

Synonyms	Thimet Oligopeptidase;Endopeptidase 24.15;MP78;THOP1
Species	Human
Expression Host	E.coli
Sequence	Lys2-Cys689
Accession	P52888
Calculated Molecular Weight	80.0 kDa
Observed molecular weight	85 kDa
Tag	C-His

Properties

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

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