

32-7157: Recombinant Human Thimet Oligopeptidase/THOP1 (C-6His)

Gene : THOP1
Gene ID : 7064
Uniprot ID : P52888

Description

Source: E.coli.
MW :80kD.

Recombinant Human Thimet Oligopeptidase is produced by our E.coli expression system and the target gene encoding Lys2-Cys689 is expressed with a 6His tag at the C-terminus. 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.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 20mM PB, 100mM NaCl, 10% Glycerol, pH 7.0.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : MKPPAACAGDMADAASPCSVVNDLRWDLAQQIEERTRELIEQTKRVYDQVGTQEFEDVSYESTLKALADVEV
TYTVQRNILDFPQHVS PSKDIRTASTEADKKLSEFDVEMSMREDVYQRI VWLQEKVQKDSL RPEAARYLERLIK
L GRRNGLHLPRETQENIKRIKKKLSLLCIDFNKLNEDTTFLPFTLQELGGLPEDFLNSLEKMEDGKLVTLKYPHY
FLLKKCHVPETRRKVEEAFNCRCKEENCAILKELVTLRAQKSRLLGFHTHADYVLEMNMAKTSQTVATFLDEL
AQKLPKPLGEQERAVILELKRAECERRGLPFDGRIRAWDMRYMNMNQEVEETRYCVDQNLKEYFPVQVVTGGLGI
YQELLGLAFHHEEGASAWHEDVRLYTARDAASGEVVGKFYLDLYPREGKYGHAAFCGLQPGCLRQDGSRQIAI
AAMVANFTKPTADAPSLQHDDEVETYFHEFGHVMHQLCSQAEFAMFSGTHVERDFVEAPSQMLENWWWEQE
PLL RMSRHYRTGS AVPRELLEKLIESRQANTGLFNLRQIVLAKVDQALHTQTDADPAEEYARLCQEILGVPATPG
TNMPATFGHLAGGYDAQYYGYLWSEVYSMDMFHTRFKQEGVLNSKVGMDYRSCILRPGGSEDASAMLRFL
GRDPKQDAFLLSKGLQVGGCEPEPQVCLEHHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.