

# Recombinant Human MALT1 Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP50659

Size: 10ug, 100ug

Protein Name: Mucosa-associated lymphoid tissue lymphoma translocation protein 1 (EC 3.4.22.-) (MALT lymphoma-associated translocation) (Paracaspase)

Synonym: MALT1, MLT

UniProt ID: Q9UDY8

UniProt Link: [www.uniprot.org/uniprotkb/Q9UDY8/entry](http://www.uniprot.org/uniprotkb/Q9UDY8/entry)

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 824 AA

Molecular Weight: 92 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MSLLGDPLQALPPSAAPTGPLLAPPAGATLNRLREPLLRRRLSELLDQAPEGRGWRRRLAELAGSRGR  
LRLSCLDLEQCSLKVLEPEGSPSLCLLKLMGEKGCTVTELSDFLQAMEHTEVLQLLSPPGIKITVNPE  
SKAVLAGQFVKLCCRATGHPFVQYQWFKMNKEIPNGNTSELIFNAVHVKDAGFYVCRVNNNFTFEF  
SQWSQLDVCIPESFQRSVDGVSESKLQICVEPTSQKLMPGSTLVLCVAVGSPIPHYQWFKNELP  
LTHETKKLYMVPYVDLEHQGTYWCHVYNDRDSQDSKKVEIIIGRTDEAVECTEDELNNLGHPDNKE  
QTTDQPLAKDKVALLIGNMNYREHPKLKAPLVDVYELTNLLRQLDFKVVSLDLTEYEMRNAVDEFL  
LLDKGVYGLLYAGHGYENFGNSFMVPVDAPNPYRSENCLCVQNILKLMQEKETGLNVFLDMCRK  
RNDYDDTIPILDALKVTANIVFGYATCQGAEAFEIQHSLGLANGIFMKFLKDRLLDCKITVLLDEVAED  
MGKCHLTKGKQALEIRSSLSEKRALTDPIQGTEYSAESLVRNLQWAKAHELPEMCLKFDCGVQIQL  
GFAAEFSNVMIIYTSIVYKPPEIIMCDAYVTDPLDLIDPKDANKGTPEETGSYLVSKDLPHCLYTRL  
SSLQKLKEHLVFTVCLSYQYSGLEDTEVDKQEVNVGKPLIAKLDMHRGLGRKTCFQTCLMSNGPYQ  
SSAATSGGAGHYHSLQDPFHGVYHSHPGNPSNVTPADSCHCSRTPDAFISSFAHHASCHFSRSNV  
PVETTDEIPFSFSDRLRISEK

## 3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

## 4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

## 5. Product Description

This product is recombinant Mucosa-associated lymphoid tissue lymphoma translocation protein 1 (EC 3.4.22.-) (MALT lymphoma-associated translocation) (Paracaspase) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

**Protein Function:** Protease that enhances BCL10-induced activation: acts via formation of CBM complexes that channel adaptive and innate immune signaling downstream of CARD domain-containing proteins (CARD9, CARD11 and CARD14) to activate NF-kappa-B and MAP kinase p38 pathways which stimulate expression of genes encoding pro-inflammatory cytokines and chemokines (PubMed:11262391, PubMed:18264101, PubMed:24074955). Mediates BCL10 cleavage: MALT1-dependent BCL10 cleavage plays an important role in T-cell antigen receptor-induced integrin adhesion (PubMed:11262391, PubMed:18264101). Involved in the induction of T helper 17 cells (Th17) differentiation (PubMed:11262391, PubMed:18264101). Cleaves RC3H1 and ZC3H12A in response to T-cell receptor (TCR) stimulation which releases their cooperatively repressed targets to promote Th17 cell differentiation (By similarity). Also mediates cleavage of N4BP1 in T-cells following TCR-mediated activation, leading to N4BP1 inactivation (PubMed:31133753). May also have ubiquitin ligase activity: binds to TRAF6, inducing TRAF6 oligomerization and activation of its ligase activity (PubMed:14695475).

**Subcellular Localization:** Cytoplasm, perinuclear region . Nucleus . Note=Shuttles between the nucleus and cytoplasm. Found in perinuclear structures together with BCL10.

## 6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.