

Recombinant Mouse MALT1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51583

Size: 10ug, 100ug

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

Synonym: Malt1

UniProt ID: Q2TBA3

UniProt Link: www.uniprot.org/uniprotkb/Q2TBA3/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 832 AA

Molecular Weight: 93 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSLWGQPLQASPPPLAVRQPPTASSGPSTSPAGATLNRLPEPLLRRLSESLDRAPEGRGWRQLAE
LAGSRGRLRLSGLDLEQCSLKVLEPEGSPSLCLLKMGEKGCTVTELSDFLQALEHTEVLPLLNPPG
LKITVNPESKAVLAGQFVKLCCRATGHPFVQYQWFKMNKEIPYGNSELVFNTVHVKDAGFYVCRV
NNSSTFEFSQWSQLDVCDAEVTDTSFQGSMDGISESRLQICVEPRSQRLVPGSMALLQCVAIGSPM
PHYQWFKDESPLTHETKKHYTPYVDIEHEGTYWCHVYNDRDSQDSKKA EVTIGRTDEAVECTEDE
LNNLGHPDNKEQTGQPLAKDKVALLIGNMSYWEHPKLKAPLVDVYELTNLLRQLDFKVVSLDLTEY
EMCNAVDEFLLLLDKGVYGLLYAGHGYENFGNSFMVPVDAPNPYRSENCLCVQNILKLMQEKETG
LNVFLDMCRKRNDYDDTIPILDALKVTANIVFGYATCQGAEAFEIQHSGLANGIFMKFLKDRLLDCK
ITVLLDEVAEDMGKCHLTGKRQALEIRSSLSEKRALTDVPVQGA PCSAEALVRNLQWAKAHELPESMC
LKFQCGVHIQLGFAAEFSNVMIIYTSIVHKPPEIIMCDAYVTDFPLDLIDPKHANKGTPEETGSYLVSK
DLPKHCLYTRLSSLQKLKEHLIFTVCLSYQYSGLEDTVEEKQEVNVGKPLIAKLDMHRGLGRKTCFQA
CRMPDEPYHSSTSTSAGAGHFHSSQDSFHDVYHSHLGNADSGMPPDRCHCSRTPHTFISNYPPHH
YCQFGRSNVPVETTDMPFSFSDRLMISEN

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 homolog (EC 3.4.22.-) (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 (By similarity). Mediates BCL10 cleavage: MALT1-dependent BCL10 cleavage plays an important role in T-cell antigen receptor-induced integrin adhesion (By similarity). Involved in the induction of T helper 17 cells (Th17) differentiation (By similarity). Cleaves RC3H1 and ZC3H12A in response to T-cell receptor (TCR) stimulation which releases their cooperatively repressed targets to promote Th17 cell differentiation (PubMed:25282160). Also mediates cleavage of N4BP1 in T-cells following TCR-mediated activation, leading to N4BP1 inactivation. May also have ubiquitin ligase activity: binds to TRAF6, inducing TRAF6 oligomerization and activation of its ligase activity (By similarity).

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

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.