

Recombinant Mouse THMS2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51829

Size: 10ug, 100ug

Protein Name: Protein THEMIS2 (Induced by contact to basement membrane 1 protein)
(Protein ICB-1) (Thymocyte-expressed molecule involved in selection protein 2)

Synonym: Themis2, Icb1

UniProt ID: Q91YX0

UniProt Link: www.uniprot.org/uniprotkb/Q91YX0/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 663 AA

Molecular Weight: 74 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEPVPLQDFVSGLDPTSLPRVLRVCSGVYFEGSVYELFGNECCCLSTGDLIKVTHVQLQKVVCCEYPET
GQTLELNPNFTGLFSPLTSLRSYRTLEDLVSAMPQNSTRWPIYFKSTQRIVTKASVVPEDQPLRLEAV
EIIHGIRYARCVQVSKTKELLHLPLSQKGPFWRCKPSAPQTLHQILQDPALKDLTLSCPSLPWNSVIL
KPQYMLQAIMHMRSSIVKIPSTLEVEVEDVTASSQHIHFFKPLRLSEVLAGGGPFPLTTEILEVPEGPP
VFLSPWVSFLRKGQRLCIYGPASPSWRVVASSKSRKVPRYFMLSGAYQGKLRPRREFSTAYDLLG
ALQPGRPLRVVATKDCDGNNEENPDFSFLAVGDRLEVLRSQGVCGTKGQDIDVLVCQRLSEQSGE
EEEDLEEIEDEAEDEKEQILLPLYLSGSFVEEVNDSRRYNLVDLTAQYSLPCEVKVVTKDTRHPTDPLA
SFPGLRLEEKLTEPFLVVSLSQPEMCFEIPPRWDLTVVEAEGQPAQVARPLSIAPVEELSEAFYYS
LRKLPASESQAPPPRPPKSGINKKQNIQSKESSVKPQVVEPQKSCPQPQLAKTLEALPKNKS
NVYSKISVHKKDRKPNPQTQNSVL SMKPKTSSSLGKHSTMESHLLPDPDMDDHDYEEI

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 Protein THEMIS2 (Induced by contact to basement membrane 1 protein) (Protein ICB-1) (Thymocyte-expressed molecule involved in selection protein 2) 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: May constitute a control point in macrophage inflammatory response, promoting LPS-induced TLR4-mediated TNF production (PubMed:20644716). Determines the threshold for activation of B cells by low-affinity and low-avidity ligands via PLCG2 activation and its downstream pathways (PubMed:27992403).

Subcellular Localization: Nucleus . Cytoplasm .

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.