

Recombinant Mouse GIMA3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51857

Size: 10ug, 100ug

Protein Name: GTPase IMAP family member 3 (Immunity-associated nucleotide 4 protein) (IAN-4)

Synonym: Gimap3, Ian4

UniProt ID: Q99MI6

UniProt Link: www.uniprot.org/uniprotkb/Q99MI6/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 301 AA

Molecular Weight: 34 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

METLQNVVTGGKKGGCTSGSRPLRILLVGKSGCGKSATGNSLLRRPAFESRLRGQSVTRTSQAETG
TWEGRSILVVDTPPIFESKAQNQDMDKDIDGDCYLLCAPGPHVLLLVTLGRFTAEDVMAVRMVKEVF
GVGVMRHMIVLFRKEDLAEKSLEEFVTHTDNRSLRSLVQECGRRYCAFNNRASGEEQQGQLAEL
MALVRRLEQECEGSFHSNDLFLHAETLLREGYSVHQEAYRCYLAKVRQEVEKQRWELEEQEGSWV
LKVLPIGKKLEVLHSDFCWYLVLAIIFFVFFLLFYV

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 GTPase IMAP family member 3 (Immunity-associated nucleotide 4 protein) (IAN-4) 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: During thymocyte development, may support the positive selection of CD4 and CD8 T cells (PubMed:16509771). May play a role in mitochondrial DNA segregation in hematopoietic tissues (PubMed:25808953). Binds GTP (PubMed:11238997).

Subcellular Localization: Endoplasmic reticulum membrane ; Single-pass type IV membrane protein . Note=The mitochondrial localization originally reported was observed with C-terminally tagged protein and was not confirmed in later publications.

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.