

Recombinant Mouse IKBD Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51582

Size: 10ug, 100ug

Protein Name: NF-kappa-B inhibitor delta (I-kappa-B-delta) (IkB-delta) (IkappaBdelta) (IkappaBNS)

Synonym: Nfkbid, Ikbns

UniProt ID: Q2TB02

UniProt Link: www.uniprot.org/uniprotkb/Q2TB02/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 327 AA

Molecular Weight: 35 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEDSLDTRLYPEPSLSQVGSWRVSSLPSPGSPQLPSPTGPSLETARAHILALGPQQLLAQDEEGDTLL
HLFAARGLRWAAYAAAQEVLMYRQLDIREHKGKTPLLVAAAANQPLIVEDLLSLGAEPNATDHQGRS
VLHVAATYGLPGVLSAVFKSGIQVDLEARDFEGLTPLHTAVLALNAAMLPAVCPRMQNSQARDRLT
CVQMLLMQMGASHTSQEIKSNKTIHLAVQAANPTLVQLLLGLPRGDLRAFVNMKAHGNTALHMAAAL
PPGPPQEAIVRHLLAAGADPTLRNLENEQPVHLLRPGPGPEGLRQLLKRSRTAPPGLSS

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 NF-kappa-B inhibitor delta (I-kappa-B-delta) (IκB-delta) (IkappaBdelta) (IkappaBNS) 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: Regulates the expression of IL-2, IL-6, and other cytokines through regulation on NF-kappa-B activity. Functions in the regulation of inflammatory responses (PubMed:11931770, PubMed:15749903, PubMed:16410444, PubMed:16413922, PubMed:17641034). Involved in the induction of T helper 17 cells (Th17) differentiation upon recognition of antigen by T cell antigen receptor (TCR) (PubMed:25282160). According to PubMed:11931770, it may also regulate TCR-induced negative selection of thymocytes (PubMed:11931770).

Subcellular Localization: Nucleus .

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.