

Recombinant Mouse CLNK Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51966

Size: 10ug, 100ug

Protein Name: Cytokine-dependent hematopoietic cell linker (Mast cell immunoreceptor signal transducer)

Synonym: Clnk, Mist

UniProt ID: Q9QZE2

UniProt Link: www.uniprot.org/uniprotkb/Q9QZE2/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 435 AA

Molecular Weight: 49 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MTSQGNKRTTKEGFGDLRFQNVSLKNSWPSLSSAKGRCRAVLEPLPDHRRNLAGVPGGEKCNS
NNDYEDPEFQLLKAWPSMKILPARPIQSEYADTRYFQDTMEAPLLLPPKASVSTERQTRDVRMTHL
EEVDKPTFKDVRQRFKGFKYTKINKTPLPPRPAILPKKYQPLPPAPPEESSAYFAPKPTFPEVQR
GPRQRSKDFSRVLGAEEESHHTKPESSCPSSNQNTQKSPPAIASSSYMPGKHSIQARDHTGSM
QHCPAQRCQAAASHSPRMLPYENTNSEKPDPTKPDEKDVWQNEWYIGEYSRQAVEDVLMKENKD
GTFLVRDCSTKSKAEPYVLVVFYGNKVYNVKIRFLESNQQFALGTGLRGNEMFDSVEDIEHYTYFPI
LLIDGKDKAARRKQCYLTQPLPLARLLLTQYSSQALHE

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 Cytokine-dependent hematopoietic cell linker (Mast cell immunoreceptor signal transducer) 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: An adapter protein which plays a role in the regulation of immunoreceptor signaling, including PLC-gamma-mediated B-cell antigen receptor (BCR) signaling and FC-epsilon R1-mediated mast cell degranulation (PubMed:10562326, PubMed:10744659, PubMed:11509653, PubMed:12681493). Together with FGR, it acts as a negative regulator of natural killer cell-activating receptors and inhibits interferon-gamma production (PubMed:15199160, PubMed:16439675). Acts as a positive regulator of both T-cell receptor and natural killer T (NKT) cell receptor signaling in CD4-positive NKT cells (PubMed:16439675). Together with MAP4K1, it enhances CD3-triggered activation of T-cells and subsequent IL2 production (PubMed:11509653). May be involved in tumor necrosis factor induced cell death by promoting reactive oxidative species generation, and MLKL oligomerization, ultimately leading to necrosis (PubMed:26009488). Involved in phosphorylation of LAT (PubMed:11463797). May be involved in high affinity immunoglobulin epsilon receptor signaling in mast cells (PubMed:12681493).

Subcellular Localization: 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.