

Recombinant Human CLNK Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50205

Size: 10ug, 100ug

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

Synonym: CLNK, MIST

UniProt ID: Q7Z7G1

UniProt Link: www.uniprot.org/uniprotkb/Q7Z7G1/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 428 AA

Molecular Weight: 50 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MNRQGNRKTTEKGSNDLKFNFSPLKNRSWPRINSATGQYQRMNKPLLDWERNFAAVLDGAKGH
SDDDYDDPELRMEETWQSIKILPARPIKESEYADTHYFKVAMDTPLPLDTRTSISIGQPTWNTQTRLE
RVDKPISKDVRSQNIKGDAVRKNKIPLPPRPLITLPKKYQPLPPEPESSRPPLSQRHTFPEVQRMP
SQISLRDLSEVLEAEKVPHNQKPESTHLLNQNTQEIPLAISSSFTTSNHSVQNRDHRGGMQPCS
PQRCQPPASCSPHENILPYKYTSWRPPFPKRSDRKDVQHNEWYIGEYSRQAVEEAFMKENKDGSF
LVRDCSTKSKEEYPVLAVFYENKVYNVKIRFLERNQQFALGTGLRGDEKFDSDVEDIIEHYKNFPILIDG
KDKTGVHRKQCHLTQPLPLTRHLLPL

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 (By similarity). Together with FGR, it acts as a negative regulator of natural killer cell-activating receptors and inhibits interferon-gamma production (By similarity). Acts as a positive regulator of both T-cell receptor and natural killer T (NKT) cell receptor signaling in CD4-positive NKT cells (By similarity). Together with MAP4K1, it enhances CD3-triggered activation of T-cells and subsequent IL2 production (By similarity). May be involved in tumor necrosis factor induced cell death by promoting reactive oxidative species generation, and MLKL oligomerization, ultimately leading to necrosis (By similarity). Involved in phosphorylation of LAT (By similarity). May be involved in high affinity immunoglobulin epsilon receptor signaling in mast cells (By similarity).

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.