

Recombinant Rat CC134 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52473

Size: 10ug, 100ug

Protein Name: Coiled-coil domain-containing protein 134

Synonym: Ccdc134

UniProt ID: Q5M862

UniProt Link: www.uniprot.org/uniprotkb/Q5M862/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 229 AA

Molecular Weight: 26 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDLLQSLAVFFVLLLPGTEVTGTLKSTLDPSLKIYKKMFEVKRREQLLALKNLAQLNDIHQQYKILDVM
LKGLFKVLEDSRTVLIAADVLPDGPLPQDEKLKDAFSHVVENTAFFGDVVLRFPKIVHHYFDHNSNW
NLLIRWGISFCNQGTGVFDQGPVLSLMAQELGITEKDSDFQNPFTIDRTEFIPSTDPFQKALREEE
KRRKKEEKRKEIRKGPRISRSQSEL

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 Coiled-coil domain-containing protein 134 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: Molecular adapter required to prevent protein hyperglycosylation of HSP90B1: during translation, associates with nascent HSP90B1 and the STT3A catalytic component of the OST-A complex and tethers them to a specialized translocon that forms a microenvironment for HSP90B1 folding. In the CDC134-containing translocon, STT3A associates with the SRT pseudosubstrate motif of HSP90B1, preventing access to facultative glycosylation sites until folding is completed, preventing hyperglycosylation and subsequent degradation of HSP90B1. In extracellular secreted form, promotes proliferation and activation of CD8(+) T-cells, suggesting a cytokine-like function. May inhibit ERK and JNK signaling activity. May suppress cell migration and invasion activity, via its effects on ERK and JNK signaling. May also localize in the nucleus: enhances stability of the PCAF histone acetyltransferase (HAT) complex member TADA2A and thus promotes PCAF-mediated histone acetyltransferase activity. Has a critical role in the regulation of osteogenesis and bone development.

Subcellular Localization: Endoplasmic reticulum lumen . Secreted . Cytoplasm . Nucleus .

Note=Mainly localizes to the endoplasmic reticulum. Accumulates in the nucleus in response to UV irradiation.

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.