Data Sheet (Cat.No.TMPY-02551)

TargetMol

CCDC134 Protein, Human, Recombinant (His)

General Information

Synonyms: coiled-coil domain containing 134

Protein Construction: Thr23-Leu229

Species: Human

Expression Host: HEK293 Cells

Accession: Q9H6E4

Molecular Weight: 25.3 kDa (predicted); 28-33 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity: Activity testing is in progress. It is theoretically active, but we cannot guarantee it.

Purity: > 95% as determined by SDS-PAGE

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Coiled-coil domain containing 134 (CCDC134) is a 229 amino acids secretory protein. Coiled-coil domain is a motif in which alpha-helix are coiled together. It has been found in many types of proteins, including transcription factors, intermediate filaments and certain tRNA synthetases. Many proteins containing such motif CCDC134 are involved in important biological functions. CCDC134 is also considered as a novel human MAPK-regulating protein that can inhibit the MAPK pathway. This protein significantly inhibite Elk1 transcriptional activity. The coiled-coil domain is a ubiquitous protein motif that is often involved in oligomerization.

Reference

Huang J, et al. (2007) CCDC134, a novel secretory protein, inhibits activation of ERK and JNK, but not p38 MAPK. Cellular and Molecular Life Sciences. 65(2): 338-49.
Kim S, et al. (2011) Genome-wide association study of CSF biomarkers Abeta1-42, t-tau, and p-tau181p in the ADNI cohort. Neurology. 76(1): 69-79.

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