

Recombinant Human DNJC9 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50259

Size: 10ug, 100ug

Protein Name: DnaJ homolog subfamily C member 9 (HDJC9) (DnaJ protein SB73)

Synonym: DNAJC9

UniProt ID: Q8WXX5

UniProt Link: www.uniprot.org/uniprotkb/Q8WXX5/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 260 AA

Molecular Weight: 30 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGLLDLC EEVFGTADLYRVLGVRREASDGEVRRGYHKVSLQVHPDRVGE GDKEDATRRFQILGKV
YSVLS DREQRAVYDEQGTVD EDSPLVTQDRDWEAYWRLLFKKISLEDIQAFEKTYKGSEEEELADIKQ
AYLDFKGDMDQIMESVLCVQYTEEPRI RNIIQQAIDAGEVPSYNAFVKESKQKMNARKRRAQEEAKE
AEMSRKELGLDEGVDSLKAAIQSRQKDRQKEMDNFLAQMEAKYCKSSKGGGKKSALKKEKK

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 DnaJ homolog subfamily C member 9 (HDJC9) (DnaJ protein SB73) 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: Acts as a dual histone chaperone and heat shock co-chaperone (PubMed:33857403). As a histone chaperone, forms a co-chaperone complex with MCM2 and histone H3-H4 heterodimers; and may thereby assist MCM2 in histone H3-H4 heterodimer recognition and facilitate the assembly of histones into nucleosomes (PubMed:33857403). May also act as a histone co-chaperone together with TONSL (PubMed:33857403). May recruit histone chaperones ASF1A, NASP and SPT2 to histone H3-H4 heterodimers (PubMed:33857403). Also plays a role as co-chaperone of the HSP70 family of molecular chaperone proteins, such as HSPA1A, HSPA1B and HSPA8 (PubMed:17182002, PubMed:33857403). As a co-chaperone, may play a role in the recruitment of HSP70-type molecular chaperone machinery to histone H3-H4 substrates, thereby maintaining the histone structural integrity (PubMed:33857403). Exhibits activity to assemble histones onto DNA in vitro (PubMed:33857403).

Subcellular Localization: Nucleus . Cytoplasm . Cell membrane . Note=Predominantly nuclear. Translocates to the cytoplasm and membrane after heat shock.

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.