

Recombinant Human ZBT49 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51092

Size: 10ug, 100ug

Protein Name: Zinc finger and BTB domain-containing protein 49 (Zinc finger protein 509)

Synonym: ZBTB49, ZNF509

UniProt ID: Q6ZSB9

UniProt Link: www.uniprot.org/uniprotkb/Q6ZSB9/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 765 AA

Molecular Weight: 85 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDPVATHSCHLLQQLHEQRIQGLLCDMLVVGVCFAHKNVLAAFSQQYFRSLFQNSSSQKNDVFH
LDVKNVSGIGQILDFMYTSHLDLNQDNIQVMLDTAQCLQVQNVLSLCHTFLKSATVVQPPGMPCNST
LSLQSTLTPDATCVISENYPPHLLQECSADAQQNKTLDESHPHASPSVNRHHSAGEISKQAPDTS
SCTELPFKQPNYYYKLRFYYSKYHKAAGPSQERVVEQPFQAFSTSTDLTTVESQPCAVSHSECILE
SPEHLPSNFLAQPVNDSAPHPESDATCQQPVKQMRLLKAIHLKLNFLKSQKYAEQVSEPKSDDGL
TKRLESASKNTLEKASSQSAAEEKSEEEVSCENFNCISETERPEDPAALEDQSQTLSQRQYACELC
GKPFKHPSNLELHKRSHTGEKPFECNICGKHFSQAGNLQTHLRRHSGEKPYICEICGKRFAASGDV
QRHIIHSGEKPFLCDICGRGFSNFSNLKEHKHTADKVFTCDECGKSFNMQRKLVKHIRHTGERP
YSCSACGKCFGGSGDLRRHVRHTHTGEKPYTCEICNKCFTSAVLRHKKMHCKAGDESPDVLEEL
SQAietsdLEKSQSSDSFSQDTSVTLMPVSVKLPVHPVENSVAEFDSSHSGGSYCKLRSMIQPHGVS
DQEKLSLDPGKLAKPQMQQTQPQAYAYSVDVTPAGGEPLQADGMAMIRSSLAALDNHGGDPLGSR
ASSTTYRNSEGQFFSSMTLWGLAMKTLQNEELDQ

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 Zinc finger and BTB domain-containing protein 49 (Zinc finger protein 509) 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: Transcription factor. Inhibits cell proliferation by activating either CDKN1A/p21 transcription or RB1 transcription.; [Isoform 1]: Binds CDKN1A promoter and activates its transcription; this activity is further potentiated in the presence of EP300 (synergistic) and ZBTB17/Miz-1 (additive).; [Isoform 3]: Activates RB1 transcription most probably by antagonizing ZBTB17 repression of RB1. Does not bind directly RB1 promoter.

Subcellular Localization: [Isoform 1]: Cytoplasm . Nucleus . Note=Predominantly located in the nucleus.; [Isoform 3]: Cytoplasm . Nucleus .

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.