

Recombinant Human KAISO Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50586

Size: 10ug, 100ug

Protein Name: Transcriptional regulator Kaiso (Zinc finger and BTB domain-containing protein 33)

Synonym: ZBTB33, KAISO, ZNF348

UniProt ID: Q86T24

UniProt Link: www.uniprot.org/uniprotkb/Q86T24/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 672 AA

Molecular Weight: 74 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MESRKLISATDIQYSGSLLNSLNEQRGHGLFCDVTVIVEDRKFRAHKNILSASSTYFHQLFSVAGQVV
ELSFIRAEIFAEILNYIYSSKIVRVRSDLLDELIKSGQLLGVKFIAELGVPLSQVKSISGTAQDGNTEPLP
PDSGDKNLVIQKSKDEAQDNGATIMPIITESFSLSAEDYEMKKIIVTDSDDDDDDVIFCSEILPTKETLP
SNNTVAQVQSNPGPVAISDVAPSASNNSPPLTNITPTQKLPTPVNQATLSQTQGSEKLLVSSAPTHLT
PNIILLNQTPSTPPNVSSSLPNHMPSSINLLVQNQQTPNSAILTGKNANEEEEEEIIDDDDDTISSSPD
SAVSNTSLVPQADTSQNTSFDGSLIQKMQUIPTLLQEPLSNLSKISDIITRNTNDPGVGSKHLMEGQKIIT
LDTATEIEGLSTGCKVYANIGEDTYDIVIPVKDDPDGEARLENEIPKTSGSEMANKRMKVKHDDHYE
LIVDGRVYYICIVCKRSYVCLTSLRRHFNIHSWEKKYPCRYCEKVFPLAEYRTKHEIHHTGERRYQCL
ACGKSFINYQFMSSHIKSVHSQDPSGDSKLYRLHPCRSLQIRQYAYLSDRSSTIPAMKDDGIGYKVD
TGKEPPVGTTTSTQNKPMTWEDIFIQQENDSIFKQNVTDGSTEFEFIIPESY

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 Transcriptional regulator Kaiso (Zinc finger and BTB domain-containing protein 33) 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: Transcriptional regulator with bimodal DNA-binding specificity. Binds to methylated CpG dinucleotides in the consensus sequence 5'-CGCG-3' and also binds to the non-methylated consensus sequence 5'-CTGCNA-3' also known as the consensus kaiso binding site (KBS). Recruits the N-CoR repressor complex to promote histone deacetylation and the formation of repressive chromatin structures in target gene promoters. May contribute to the repression of target genes of the Wnt signaling pathway. May also activate transcription of a subset of target genes by the recruitment of CTNND2. Represses expression of MMP7 in conjunction with transcriptional corepressors CBFA2T3, CBFA2T2 and RUNX1T1 (PubMed:23251453).

Subcellular Localization: Nucleus . Cytoplasm . Note=Also cytoplasmic in cells grown at high densities.

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.