

Recombinant Human ZBT14 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51081

Size: 10ug, 100ug

Protein Name: Zinc finger and BTB domain-containing protein 14 (Zinc finger protein 161 homolog) (Zfp-161) (Zinc finger protein 478) (Zinc finger protein 5 homolog) (ZF5) (Zfp-5) (hZF5)

Synonym: ZBTB14, ZFP161, ZNF478

UniProt ID: O43829

UniProt Link: www.uniprot.org/uniprotkb/O43829/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 449 AA

Molecular Weight: 51 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEFFISMSETIKYNDDDHKTLFLKTLNEQRLEGEFCDIAIVVEDVKFRAHRCVLAACSTYFKKLFKKLE
VDSSSVIEIDFLRSDIFEEVLNMYTAKISVKKEDVNLMMSSGQILGIRFLDKLCSQKRDVSSPDENNG
QSKSKYCLKINRPIGDAADTQDDDVEEIGDQDDSPSDDTVEGTPPSQEDGKSPTTTLRVQEAILKEL
GSEEVKRVNCYGQEVESMETPESKDLGSQTPQALTFNDGMSEVKDEQTPGWTTAASDMKFEYLLY
GHHREQIACQACGKTFSDGRLRKHEKLHTADRPFVCEMCTKGFTTQAHLKEHLKIHTGYKPYSCE
VCGKSFIRAPDLKKHERVHSNERPFACHMCDKAFKHKSHLKDHERHRGEKPFVCGSCTKAFKAS
DLKRHENNMHSERKQVTPSAIQSETEQLQAAAMAAEAEEQQLLETIACS

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 14 (Zinc finger protein 161 homolog) (Zfp-161) (Zinc finger protein 478) (Zinc finger protein 5 homolog) (ZF5) (Zfp-5) (hZF5) 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 activator of the dopamine transporter (DAT), binding its promoter at the consensus sequence 5'-CCTGCACAGTTCACGGA-3'. Binds to 5'-d(GCC)(n)-3' trinucleotide repeats in promoter regions and acts as a repressor of the FMR1 gene. Transcriptional repressor of MYC and thymidine kinase promoters.

Subcellular Localization: Nucleus . Note=Colocalizes with ZBTB21 in nucleus in HEK293 cells.

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.