

Recombinant Human CITE1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50186

Size: 10ug, 100ug

Protein Name: Cbp/p300-interacting transactivator 1 (Melanocyte-specific protein 1)

Synonym: CITED1, MSG1

UniProt ID: Q99966

UniProt Link: www.uniprot.org/uniprotkb/Q99966/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 193 AA

Molecular Weight: 20 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MPTTSRPALDVKGGTSPAKEDANQEMSSVAYSNLAVKDRKAVAILHYPGVASNGTKASGAPTSSSG
SPIGSPTTTPPTKPPSFLHPAPHLLASMLQKLNSQYQGMAAATPGQPGEAGPLQNWDFGAQAG
GAESLSPSAGAQSPAIDSPPVDEEVLMSSLVVELGLDRANELPELWLGQNEFDFTADFPSSC

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 Cbp/p300-interacting transactivator 1 (Melanocyte-specific protein 1) 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 coactivator of the p300/CBP-mediated transcription complex. Enhances SMAD-mediated transcription by strengthening the functional link between the DNA-binding SMAD transcription factors and the p300/CBP transcription coactivator complex. Stimulates estrogen-dependent transactivation activity mediated by estrogen receptors signaling; stabilizes the interaction of estrogen receptor ESR1 and histone acetyltransferase EP300. Positively regulates TGF-beta signaling through its association with the SMAD/p300/CBP-mediated transcriptional coactivator complex. Induces transcription from estrogen-responsive promoters and protection against cell death. Potentiates EGR2-mediated transcriptional activation activity from the ERBB2 promoter. Acts as an inhibitor of osteoblastic mineralization through a cAMP-dependent parathyroid hormone receptor signaling. May play a role in pigmentation of melanocytes. Associates with chromatin to the estrogen-responsive TGF-alpha promoter region in a estrogen-dependent manner.

Subcellular Localization: Nucleus . Cytoplasm . Note=Shuttles between the nucleus and the cytoplasm by a nuclear export signal and (NES) in a CRM1-dependent manner.

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.