

Recombinant Mouse TWST2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51871

Size: 10ug, 100ug

Protein Name: Twist-related protein 2 (Dermis-expressed protein 1) (Dermo-1)

Synonym: Twist2, Dermo1

UniProt ID: Q9D030

UniProt Link: www.uniprot.org/uniprotkb/Q9D030/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 160 AA

Molecular Weight: 18 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEEGSSSPVSPVDSLGTSEEELERQPKRFGRKRRYSKKSSSEDGSPTPGKRGKKGSPSAQSFEELQ
SQRILANVRERQRTQSLNEAFAALRKIIPTLPSDKLSKIQTCLKLAARYIDFLYQVLQSDMDNKMNTSCS
YVAHERLSYAYSVWRMEGAWSMSASH

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 Twist-related protein 2 (Dermis-expressed protein 1) (Dermo-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: Binds to the E-box consensus sequence 5'-CANNTG-3' as a heterodimer and inhibits transcriptional activation by MYOD1, MYOG, MEF2A and MEF2C. Also represses expression of pro-inflammatory cytokines such as TNFA and IL1B. Involved in postnatal glycogen storage and energy metabolism. Inhibits the premature or ectopic differentiation of preosteoblast cells during osteogenesis, possibly by changing the internal signal transduction response of osteoblasts to external growth factors (By similarity).

Subcellular Localization: Nucleus . Cytoplasm . Note=Mainly nuclear during embryonic development. Cytoplasmic in adult tissues.

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.