

Recombinant Mouse LITAF Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51938

Size: 10ug, 100ug

Protein Name: Lipopolysaccharide-induced tumor necrosis factor-alpha factor homolog (LPS-induced TNF-alpha factor homolog) (Estrogen-enhanced transcript protein) (mEET) (LITAF-like protein) (NEDD4 WW domain-binding protein 3)

Synonym: Litaf, N4wbp3, Tbx1

UniProt ID: Q9JLJ0

UniProt Link: www.uniprot.org/uniprotkb/Q9JLJ0/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 161 AA

Molecular Weight: 17 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSAPGPYQAAAGPSVVPTAPPTYEETVGVNSYYPTPPAPMPGPATGLITGPDGKGMNPPSYTQP
VPVPNANAIQVTVYVQQPVSFYDRPVQMCCPSCSKMIVTQLSYNAGALTWLSCGSLCLLGCVAGC
CFIPFCVDALQDQVDHYCPNCKALLGTYKRL

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 Lipopolysaccharide-induced tumor necrosis factor-alpha factor homolog (LPS-induced TNF-alpha factor homolog) (Estrogen-enhanced transcript protein) (mEET) (LITAF-like protein) (NEDD4 WW domain-binding protein 3) 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: Plays a role in endosomal protein trafficking and in targeting proteins for lysosomal degradation. Plays a role in targeting endocytosed EGFR and ERG3 for lysosomal degradation, and thereby helps down-regulate downstream signaling cascades (PubMed:23166352). Helps recruit the ESCRT complex components TSG101, HGS and STAM to cytoplasmic membranes. Probably plays a role in regulating protein degradation via its interaction with NEDD4 (By similarity). May also contribute to the regulation of gene expression in the nucleus. Binds DNA (in vitro) and may play a synergistic role with STAT6 in the nucleus in regulating the expression of various cytokines (PubMed:15793005, PubMed:21980379). May regulate the expression of numerous cytokines, such as TNF, CCL2, CCL5, CXCL1, IL1A and IL10 (PubMed:12355436, PubMed:15025820, PubMed:16954198, PubMed:21980379, PubMed:22160695).

Subcellular Localization: Cytoplasm . Nucleus . Lysosome membrane ; Peripheral membrane protein ; Cytoplasmic side . Early endosome membrane . Late endosome membrane . Endosome membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Golgi apparatus membrane . Note=Associated with membranes of lysosomes, early and late endosomes. Can translocate from the cytoplasm into the nucleus (By similarity). Detected at Schmidt-Lanterman incisures and in nodal regions of myelinating Schwann cells (PubMed:22729949).

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.