

Recombinant Mouse HNRDL Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52005

Size: 10ug, 100ug

Protein Name: Heterogeneous nuclear ribonucleoprotein D-like (hnRNP D-like) (hnRNP DL) (JKT41-binding protein)

Synonym: Hnrnpdl, Hnrpdl, Jktbp

UniProt ID: Q9Z130

UniProt Link: www.uniprot.org/uniprotkb/Q9Z130/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 301 AA

Molecular Weight: 34 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEDMNEYSNIEEFAEGSKINASKNQDDGKMFIGGLSWDTSKKDLTEYLSRFGEVVDCTIKTDPVTG
RSRGFGFVLFKDAASVDKVLLELKEHKLDGKLIDPKRAKALKGKEPPKKVFVGGLSPDTSEEQIKEYF
GAFGEIENIELPMDTKTNERRGFCFITYTDEEPVKKLLESRYHQIGSGKCEIKVAQPKEVYRQQQQQ
QKGGRGAAAGGRGGARGRGQGQGNWNQGFNNYYDQGYGNYSAYGGDQNYSGYGGYDYTG
YNYGNYGYGQGYADYSGQQSTYGKASRGGGNHQNNYQPY

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 Heterogeneous nuclear ribonucleoprotein D-like (hnRNP D-like) (hnRNP DL) (JKT41-binding protein) 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: Acts as a transcriptional regulator. Promotes transcription repression (By similarity). Promotes transcription activation in differentiated myotubes. Binds to double- and single-stranded DNA sequences (By similarity). Binds to the transcription suppressor CATR sequence of the COX5B promoter. Binds with high affinity to RNA molecules that contain AU-rich elements (AREs) found within the 3'-UTR of many proto-oncogenes and cytokine mRNAs (By similarity). Binds both to nuclear and cytoplasmic poly(A) mRNAs (By similarity). Binds to poly(G) and poly(A), but not to poly(U) or poly(C) RNA homopolymers (By similarity). Binds to the 5'-ACUAGC-3' RNA consensus sequence (By similarity).

Subcellular Localization: Nucleus . Cytoplasm . Note=Shuttles between the nucleus and the cytoplasm in a TNPO1-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.