

Recombinant Mouse LFTY1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51674

Size: 10ug, 100ug

Protein Name: Left-right determination factor 1 (Protein lefty-1) (Lefty protein) (Stimulated by retinoic acid gene 3 protein) (Transforming growth factor beta-4) (TGF-beta-4)

Synonym: Lefty1, Ebaf, Lefty, Stra3, Tgfb4

UniProt ID: Q64280

UniProt Link: www.uniprot.org/uniprotkb/Q64280/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 368 AA

Molecular Weight: 41 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MPFLWLCWALWALSLVSLREALTGEQILGSLLQQQLQDQPPVLDKADVEGMVIPSHVRTQYVALLQH
SHASRSRGKRFSQNLREVAGRFLVSETSTHLLVFGMEQRLPPNSELVQAVLRLFQEPVPRTALRRQ
KRLSPHSARARVTIEWLRFDDGSNRTALIDSRVLSIHESGWKAFDVTEAVNFWQQLSRPRQPLLLQ
VSVQREHLGPGTWSSHKLVRFQAAQGTDPDGKGQGEQLELHTLDLDYGAQGNCDPEAPVTEGTR
CCRQEMYLDLQGMKWAENWILEPPGFLTYECVGSCLQLPESLTSRWPFLGPRQCVASEMTSLPMI
VSVKEGGRTRPQVVSLPNMRVQTCSCASDGALIPRRLQP

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 Left-right determination factor 1 (Protein lefty-1) (Lefty protein) (Stimulated by retinoic acid gene 3 protein) (Transforming growth factor beta-4) (TGF-beta-4) 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: Required for left-right axis determination as a regulator of LEFTY2 and NODAL.

Subcellular Localization: Secreted.

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.