

Recombinant Rat TNFB Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52448

Size: 10ug, 100ug

Protein Name: Lymphotoxin-alpha (LT-alpha) (TNF-beta) (Tumor necrosis factor ligand superfamily member 1)

Synonym: Lta, Tnfb, Tnfsf1

UniProt ID: Q06332

UniProt Link: www.uniprot.org/uniprotkb/Q06332/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 202 AA

Molecular Weight: 22 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MTPLGRLHLLRVLSTPPVFLLGLLLALPLGAQGLSGVRFSAASRTAHQPPQKHLTHGLLKPAAHLVGY
PSKQNSLLWRANTDRAFLRHGFSLNNNSLLIPTSGLYFVYSQVVFSGESCSPPRAIPTPIYLAHEVQLF
SSQYPFHVPLLSAQKSVYPGLQGPWVRSMYQGAVFLLSKGDQLSTHTDGISHLHFSPSTVFFGAFA
L

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 Lymphotoxin-alpha (LT-alpha) (TNF-beta) (Tumor necrosis factor ligand superfamily member 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: Cytokine that in its homotrimeric form binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFR and TNFRSF14/HVEM (By similarity). In its heterotrimeric form with LTB binds to TNFRSF3/LTBR. Lymphotoxin is produced by lymphocytes and is cytotoxic for a wide range of tumor cells in vitro and in vivo.

Subcellular Localization: Secreted . Membrane . Note=The homotrimer is secreted. The heterotrimer is membrane-associated.

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.