

Recombinant Mouse TNF18 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51705

Size: 10ug, 100ug

Protein Name: Tumor necrosis factor ligand superfamily member 18 (GITR ligand) (GITRL)
(Glucocorticoid-induced TNF-related ligand)

Synonym: Tnfsf18, Gitrl

UniProt ID: Q7TS55

UniProt Link: www.uniprot.org/uniprotkb/Q7TS55/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 173 AA

Molecular Weight: 20 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEEMPLRESSPQRAERCKKSWLLCIVALLLMLLCSLGTLIYTSKPTAIESCMVKFELSSSKWHMTSP
KPHCVNTTSDGKLKILQSGTYLIYGQVIPVDKKYIKDNAPFVVQIYKKNDVLQTLMNDFQILPIGGVYEL
HAGDNIYLFNSKDHQKTNTYWGILMPDLPFIS

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 Tumor necrosis factor ligand superfamily member 18 (GITR ligand) (GITRL) (Glucocorticoid-induced TNF-related ligand) 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 binds to TNFRSF18/AITR/GITR (PubMed:14521928, PubMed:14647196). Regulates T-cell responses (PubMed:14647196). Can function as costimulator and lower the threshold for T-cell activation and T-cell proliferation (PubMed:14608036, PubMed:15128759). Important for interactions between activated T-lymphocytes and endothelial cells. Mediates activation of NF-kappa-B (PubMed:14521928, PubMed:14647196, PubMed:18178614). Triggers increased phosphorylation of STAT1 and up-regulates expression of VCAM1 and ICAM1 (By similarity). Promotes leukocyte adhesion to endothelial cells (PubMed:23892569). Regulates migration of monocytes from the splenic reservoir to sites of inflammation (PubMed:24107315).

Subcellular Localization: Cell membrane ; Single-pass type II membrane protein .

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.