

Recombinant Mouse BT1A1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52062

Size: 10ug, 100ug

Protein Name: Butyrophilin subfamily 1 member A1 (BT)

Synonym: Btn1a1, Btn

UniProt ID: Q62556

UniProt Link: www.uniprot.org/uniprotkb/Q62556/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 524 AA

Molecular Weight: 58 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAVPTNSCLLVCLLTTLTVLQLPTLDSAAPFDVTAPQEPVLALVGSDAELTCGFSPNASSEYMELLWF
RQTRSTAVLLYRDGQEQEQQMTEYRGRATLATAGLLDGRATLLIRDVRVSDQGEYRCLFKDND
EEAAVYLKVAAVGSDPQISMTVQENGEMELECTSSGWYPEPQVQWRTGNREMLPSTSESKHNEE
GLFTVAVSMMIRDSSIKNMSCCIQNILLGQGKEVEISLPAPFVPRLTPWIVAVAIILLALGFLTIGSIFFT
WKLYKERSSLRKKEFGSKERLLEELRCKKTVLHEVDVTLDPDTAHPHLFLYEDSKSVRLEDSRQILP
DRPERFDSWPCVLGRETFTSGRHYWEVEVGDRTDWAIGVCRENVVKKGFDPMPDNGFWAVELEY
GNGYWALTPLRTSLRLAGPPRRVGVFLDYDAGDISFYNMSNGSLIYTFPSISFSGPLRPFFCLWSCG
KKPLTICSTANGPEKVTIVANVQDDIPLSPLGEGCTSGDKDTLHSLIPFSPSQAAP

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 Butyrophilin subfamily 1 member A1 (BT) 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: May function in the secretion of milk-fat droplets. May act as a specific membrane-associated receptor for the association of cytoplasmic droplets with the apical plasma membrane (By similarity). Inhibits the proliferation of CD4 and CD8 T-cells activated by anti-CD3 antibodies, T-cell metabolism and IL2 and IFNG secretion.

Subcellular Localization: Membrane; Single-pass type I membrane protein. Note=Secreted in association with the milk-fat-globule membrane during lactation.

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.