

Recombinant Mouse TNR21 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51890

Size: 10ug, 100ug

Protein Name: Tumor necrosis factor receptor superfamily member 21 (Death receptor 6)
(CD antigen CD358)

Synonym: Tnfrsf21, Dr6

UniProt ID: Q9EPU5

UniProt Link: www.uniprot.org/uniprotkb/Q9EPU5/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 655 AA

Molecular Weight: 72 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGTRASSITALASCSRTAGQVGATMVAGSLLLLGFLSTITAQPEQKTLSPGTYRHVDRTTGQVLTC
DKCPAGTYVSEHCTNMSLRVCSSCPAGTFTRHENGIERCHDCSQPCPWPMIERLPCAALTDRECIC
PPGMYQSNGTCAPHTVCPVGWGVRRKKG TENEDVRCKQCARGTFSDVPSSVMKCKAHTDCLGQNL
EVLKPGTKETDNVCGMRLFFSSTNPPSSGTVTFSHPEHMESHDLVPSSTYEPQGMNSTDSNSTASV
RTKVP SGIEEGTVPDNTSSTSGKEGTNRTLPPNPQVTHQQAPHHRHILKLLPSSMEATGEKSSTAIK
APKRGHPRQNAHKHFDINEHLPWMIVLFLLLVLVLIVVCSIRKSSRTLKKGPRQDPSAIVEKAGLKKSL
TPTQNREKWIYYRNGHGIDILKLVAQVGSQWKDIYQFLCNASEREVAAFSNGYTADHERAYAALQH
WTIRGPEASLAQLISALRQHRNDVVEKIRGLMEDTTQLETDKLALPMSPSPSPSPMPSPPNVKLEN
STLLTVEPSPLDKNKCFVDESEPLLRC DSTSSGSSALSRNGSFITKEKKDTVLRQVRLDPCDLQPIF
DDMLHILNPEELRVIEEIPQAEDKLDRLFEIIGVKSQEASQTLLDSVYSHLPDLL

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 receptor superfamily member 21 (Death receptor 6) (CD antigen CD358) 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: Promotes apoptosis, possibly via a pathway that involves the activation of NF-kappa-B (PubMed:11485735, PubMed:11714751, PubMed:12515813, PubMed:21725297, PubMed:23559013). Can also promote apoptosis mediated by BAX and by the release of cytochrome c from the mitochondria into the cytoplasm (By similarity). Trophic-factor deprivation triggers the cleavage of surface APP by beta-secretase to release sAPP-beta which is further cleaved to release an N-terminal fragment of APP (N-APP) (PubMed:23559013). Negatively regulates oligodendrocyte survival, maturation and myelination (PubMed:21725297). Plays a role in signaling cascades triggered by stimulation of T-cell receptors, in the adaptive immune response and in the regulation of T-cell differentiation and proliferation (By similarity). Negatively regulates T-cell responses and the release of cytokines such as IL4, IL5, IL10, IL13 and IFNG by Th2 cells (By similarity). Negatively regulates the production of IgG, IgM and IgM in response to antigens (By similarity). May inhibit the activation of JNK in response to T-cell stimulation (By similarity). Also acts as a regulator of pyroptosis: recruits CASP8 in response to reactive oxygen species (ROS) and subsequent oxidation, leading to activation of GSDMC (By similarity).

Subcellular Localization: Cell membrane ; Single-pass type I membrane protein .
Note=Endocytosed following oxidation in response to reactive oxygen species (ROS).

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.