

Recombinant Rat TNF1A Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52314

Size: 10ug, 100ug

Protein Name: Tumor necrosis factor receptor superfamily member 1A (Tumor necrosis factor receptor 1) (TNF-R1) (Tumor necrosis factor receptor type I) (TNF-RI) (TNFR-I) (p55) (p60) (CD antigen CD120a)

Synonym: Tnfrsf1a, Tnfr-1, Tnfr1

UniProt ID: P22934

UniProt Link: www.uniprot.org/uniprotkb/P22934/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 461 AA

Molecular Weight: 51 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGLPIVPGLLLSLVLLALLMGIHPSGVTGLVPSLGDREKRDNLCPQGKYAHPKNNSICCTKCHKGTYL
VSDCPSPGQETVCEVCDKGTFTASQNHVRQCLSKTCRKEMFQVEISPCKADMDTVCGCKKNQFQ
RYLSETHFQCVCDCSPCFNGTVTIPCKEKQNTVCNCHAGFFLSGNECTPCSHCKKNQECMKLCLPPV
ANVTNPQDSGTAVLLPLVIFLGLCLLFFICISLLCRYPQWRPRVYSIICRDSAPVKEVEGEGIVTKPLTP
ASIPAFSPNPGFNPTLGFSTTPRFSHPVSSPTISPVFGPSNWHNFVPPVREVPTQGADPLLYGSLN
PVPIAPVRKWEDVVAAPQRLDTADPAMLYAVVDGVPPTRWKEFMRLGLSEHEIERLELQNGRC
LREAHYSMLEAWRRRTPRHEATLDVVGRVLCMDNLRGCLNIRETLESPAHSSTTHLPR

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 1A (Tumor necrosis factor receptor 1) (TNF-R1) (Tumor necrosis factor receptor type I) (TNF-RI) (TNFR-I) (p55) (p60) (CD antigen CD120a) 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: Receptor for TNFSF2/TNF and homotrimeric TNFSF1/lymphotoxin-alpha. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis (By similarity).

Subcellular Localization: Cell membrane; Single-pass type I membrane protein. Golgi apparatus membrane ; Single-pass type I 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.