



### Recombinant Human TNFR1B Fc-Fusion Protein (Etanercept)

Cat No: Pr00135

## Product Summary

**Description:** Recombinant human TNFR1B Fc-Fusion Protein (Etanercept) manufactured using [AbAb's Recombinant Platform](#)

**Protein:** Human TNFR1B

**Fc domain:** Human IgG1

**Structure / Form:** Disulfide-linked homodimer

**Species:** Human

**Construct Design Note(s):** The extracellular domain of TNFR1B has been fused to the Fc domain of human IgG1.

**Host:** HEK293

**UniProt Accession Number:** P20333

**Alternative Description:** Tumor necrosis factor receptor superfamily member 1B, Tumor necrosis factor receptor 2, TNF-R2, Tumor necrosis factor receptor type II, TNF-RII, TNFR-II, p75, p80 TNF-alpha receptor, CD120b, Cleaved into the following 2 chains: Tumor necrosis factor receptor superfamily member 1b, membrane form, Tumor necrosis factor-binding protein 2, TBP-2, TBPII; TNFR1B-Ig; TNFR1B-Fc chimera; TNFR1B (Fc tag)

**Published Application(s):**

**Tested Applications(s):**

**Activity:** Receptor with high affinity for TNFSF2/TNF-alpha and approximately 5-fold lower affinity for homotrimeric TNFSF1/lymphotoxin-alpha. The TRAF1/TRAF2 complex recruits the apoptotic suppressors BIRC2 and BIRC3 to TNFRSF1B/TNFR2. This receptor mediates most of the metabolic effects of TNF-alpha. Isoform 2 blocks TNF-alpha-induced apoptosis, which suggests that it regulates TNF-alpha function by antagonizing its biological activity [Uniprot].

## Product Form

**Purification:** IMAC purified

**Supplied in:** 0.1 mg size: PBS with preservative (0.02% Proclin 300), 1 mg size: PBS only.

**Endotoxin:** <1.0 EU/mg

**Shipping:** The product is shipped on blue ice. Upon receipt, store it immediately at the temperature recommended.

**Storage Recommendation:** Store at 4°C for up to 1 month. For longer term storage aliquot in small volumes and store at -20°C. Avoid repeated freeze-thaw cycles.

**Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals**

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**SDS PAGE Purity:** >95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.

**Fc-Fusion Sequence (monomer)**

LPAQVAFTPYAPEPGSTCRLREYYDQTAQMCCSKCSPGQHAKVFCTKTSDTVCDSCEDSTYTQLWNWVPECLSCGS  
RCSSDQVETQACTREQNRICRCRPGWYCALSKQEGCRLCAPLRKCRPGFGVARPGTETSDVVCKPCAPGTFSENNTS  
STDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTSFLMGPSPPAE  
GSTGDEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNA  
KTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL  
TCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLS  
LSPGKGGGGSEPKSQDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGV  
EVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK  
NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYT  
QKSLSLSPGHHHHHH

Underlined amino acids sequence include a G4S linker and 6xHis epitope tag, respectively.

**Calculated Molecular weight (dimer):** 155901.46 Da

**Extinction coefficient:** 191190 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).

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