TNFRSF1B
Recombinant Human TNF-R2 / CD120b (aa 1-268, 196 Met/Arg, His Tag)

Catalog No.	CRH478A-His CRH478B-His	**Quantity:**	50 µg 100 µg

Alternate Names: 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, Etanercept

Description: Tumor necrosis factor receptor superfamily, member 1B (TNFRSF1B is a member of the TNF-receptor superfamily. This protein and TNF-receptor 1 form a heterocomplex that mediates the recruitment of two anti-apoptotic proteins, c-IAP1 and c-IAP2, which possess E3 ubiquitin ligase activity. Knockout studies in mice also suggest a role of this protein in protecting neurons from apoptosis by stimulating antioxidative pathways. TNFRSF1B is not a major contributing factor to the genetic risk of type 2 diabetes, its associated peripheral neuropathy and hypertension and related metabolic traits in North Indians. TNFRSF1B has been reported to be associated with SLE risk in Japanese populations and serves as a receptor with high affinity for TNFSF2 and approximately 5-fold lower affinity for homotrimeric TNFSF1. 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 ID: P20333

Accession Number: NP_001057

Protein Construction: A DNA sequence encoding the human TNFRSF1B (Met1-Arg268, natural variant 196 Met/Arg) was expressed with a C-terminal polyhistidine tag.

Source: HEK293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The recombinant human TNFRSF1B comprises 257 amino acids and has a predicted molecular mass of 27.7 kDa. The apparent molecular mass of the protein is approximately 43 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Purity: > 95 % as determined by SDS-PAGE

Endotoxin Level: < 1.0 EU per µg protein as determined by the LAL method.

Biological Activity: Measured by its ability to inhibit TNF-α mediated cytotoxicity in L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D.
The ED50 for this effect is typically 5-40 ng/mL in the presence of 1 ng/mL recombinant human TNF-α.

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Predicted N-terminal: Leu 23

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX**. Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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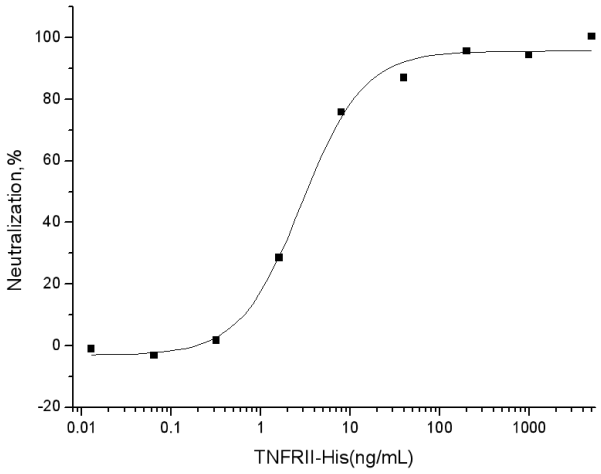
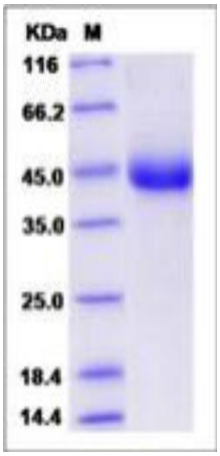


SDS-PAGE



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