# Recombinant Human TNFRSF1B/TNF-R2/CD120b Protein

## Catalog No.: RP00364



### Sequence Information

**Species**
Human

**Gene ID**
7133

**Swiss Prot**
P20333-1

**Tags**
C-His

**Synonyms**
CD120b; Etanercept; p75TBPII; p75TNFR; TNF RII; TNF-R2; TNF-R75; TNFR80; TNFRSF1B; TNFR2; TBPII; TNFBR; TNFR1B

### Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

**Calculated MW**
26.2 kDa

**Observed MW**
48-60 kDa

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### Background

Tumor Necrosis Factor Receptor II (TNF RII), also known as TNFRSF1B, p75 /p80, and CD120b, is a type I transmembrane protein that belongs to the TNF receptor superfamily. It has a molecular weight of approximately 75 kDa. 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.

### Basic Information

**Description**
Recombinant Human TNFRSF1B/TNF-R2/CD120b Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu23-Asp257) of Human TNFR2/CD120b/TNFRSF1B (Accession #P20333-1) fused with a C-His tag at the C-terminus.

**Activity**

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

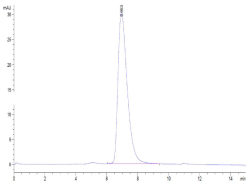
**Contact**

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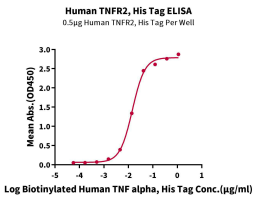


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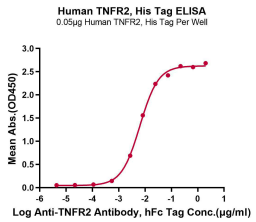
## Validation Data



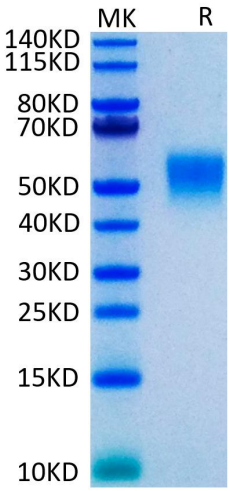
The purity of Human TNFR2 is greater than 95% as determined by SEC-HPLC.




Immobilized Human TNFR2, His Tag at 5 μg/mL (100 μL/Well). Dose response curve for Biotinylated Human TNF alpha, His Tag with the $EC_{50}$ of 14.6ng/mL determined by ELISA (QC Test).




Immobilized Human TNFR2, His Tag at 0.5 μg/mL (100 μL/Well). Dose response curve for Anti-TNFR2 Antibody, hFc Tag with the $EC_{50}$ of 6.4ng/mL determined by ELISA.




Recombinant Human TNFRSF1B/TNF-R2/CD120b Protein was determined by Tris-Bis PAGE under reducing conditions.