

## TNF RII Protein, Human, Recombinant (hFc)

### General Information

Synonyms:	TNF-R2;Tumor necrosis factor receptor superfamily member 1B;TNF-RII;TNFRSF1B;Tumor necrosis factor receptor 2;p75;p80 TNF- $\alpha$ receptor;p80 TNF-alpha receptor;CD120b;Tumor necrosis factor receptor type II
Protein Construction:	Leu23-Asp257
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P20333
Molecular Weight:	60-90 KDa (reducing condition)
AA Sequence:	Leu23-Asp257

### QC Testing

Biological Activity:	<ol style="list-style-type: none"><li>1. Loaded Recombinant Human TNF RII (C-Fc) on Pro-A Biosensor, can bind Recombinant Human TNF alpha with an affinity constant of 25.2 pM as determined in BLI assay. (Regularly tested)</li><li>2. Measured by its ability to induce NF-<math>\kappa</math>B reporter activity in HEK293 human embryonic kidney cells. Recombinant Human TNF RII inhibits a constant dose of 0.5ng/mL of Recombinant TNF alpha. The IC<sub>50</sub> for this effect is 2.5 ng/mL. (Regularly tested)</li><li>3. Immobilized Recombinant Human TNF alpha at 5<math>\mu</math>g/ml (100 <math>\mu</math>l/well) can bind Recombinant Human TNF RII (C-Fc) . The ED<sub>50</sub> of Recombinant Human TNF RII (C-Fc) is 15.35 ng/ml. (Regularly tested)</li></ol>
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Tumor necrosis factor receptor superfamily member 1B (TNFRSF1B) is a member of the tumor necrosis factor receptor superfamily. Human TNF RII contains four cysteine-rich repeats in its ECD, which shares 58% and 56% amino acid sequence identity with the mouse and rat orthologs, respectively. TNF RII is expressed predominantly on cells of the hematopoietic lineage, such as T and natural killer cells, as well as on endothelial cells, microglia, astrocytes, neurons, oligodendrocytes, cardiac myocytes, thymocytes, and mesenchymal stem cells. TNF RII binds to the membrane-bound forms of TNF $\alpha$  and Lymphotoxin $\alpha$ /TNF $\beta$ ; soluble TNF is thought to signal predominately through TNF RI. Soluble TNF RII is believed to inhibit TNF biological activity by binding TNF thereby preventing it from activating membrane TNF receptors.

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