

## Human TNF- $\beta$ Protein, His tag (Animal-Free)

Cat #: PRP1123

Size: 5  $\mu$ g/20  $\mu$ g/100  $\mu$ g/1 mg

### Product Information

|                                                                                   |                                                                        |            |                                           |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------|------------|-------------------------------------------|
|                                                                                   | <b>Product Name:</b> Human TNF- $\beta$ Protein, His tag (Animal-Free) |            |                                           |
| <b>REF</b>                                                                        | <b>Catalog Number:</b> PRP1123                                         | <b>LOT</b> | <b>Lot Number:</b> Refer to product label |
|                                                                                   | <b>Purity:</b> > 98 % as determined by SDS-PAGE                        |            |                                           |
|  | <b>Storage:</b> Store at -20°C                                         |            | <b>Preparation method:</b> E.coli         |
|                                                                                   | <b>Shipping:</b> The product is shipped at ambient temperature.        |            |                                           |

**Background:** Human TNF- $\beta$  belongs to tumor necrosis factor (TNF) superfamily as TNF alpha. Binding to lymphotoxin- $\beta$  receptor (Lt $\beta$ R), canonical and non-canonical NF- $\kappa$ B signal pathway will be activated. TNF beta is related to apoptosis and inflammatory signals.

**Sequence:** Amino acid sequence derived from Human TNF- $\beta$  (Leu 35-Leu 205) (P01374) was expressed with 6 $\times$ His tag at the N-terminus.

**Protein length:** The recombinant Human TNF- $\beta$  consists of 171 amino acids and predicts a molecular mass of 18.65 kDa.

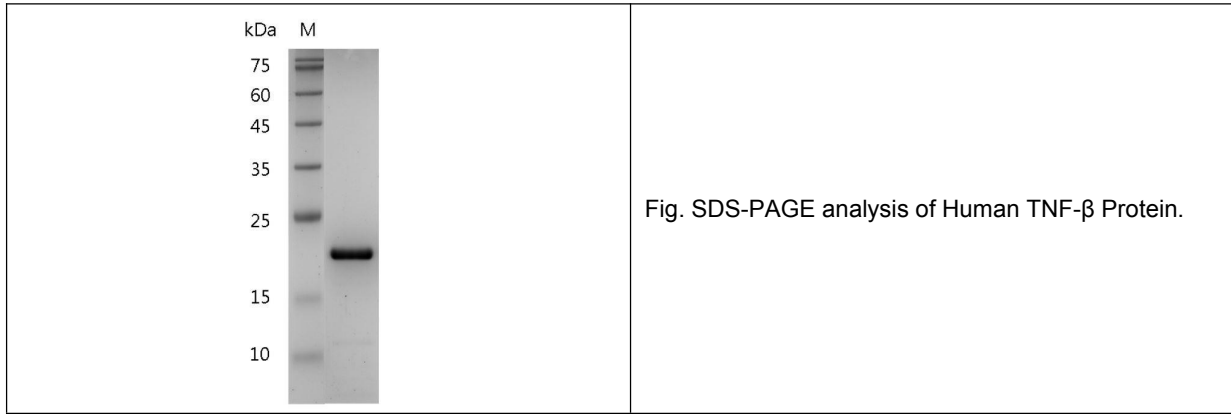
**Biological Activity:** Measured by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D. The ED<sub>50</sub> for this effect is < 3 pg/mL.

**Endotoxin:** <0.1 EU per 1  $\mu$ g of the protein by the LAL method.

**Formulation:** Lyophilized from 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.

**Storage Instructions:** Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.