

**Recombinant Human sTNF Receptor Type I**  
**Catalog # PBG10428****Specification**

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**Recombinant Human sTNF Receptor Type I - Product Information****Recombinant Human sTNF Receptor Type I - Additional Information****Description**

TNFR1 belongs to the TNFR superfamily of transmembrane proteins, and is expressed in most cell types. Binding of either TNF- $\alpha$  or TNF- $\beta$  to TNFR1 initiates a signal transduction pathway that results in the activation of the transduction factor NF $\kappa$ B, whose target genes are involved in the regulation of inflammatory responses, and, in certain cells induce apoptosis. Soluble TNF Receptor I (sTNFR1) is capable of inhibiting TNF- $\alpha$  and TNF- $\beta$  activities by acting as a decoy receptor that serves as a sink for the TNF ligands. Recombinant human sTNFR1 is an 18.3 kDa protein (162 amino acid residues) comprising the cysteine rich ligand binding portion of the extracellular domain of the TNFR1 protein.

**Biological Activity**

Determined by its inhibitory effect of the TNF- $\alpha$  mediated cytotoxicity in murine L-929 cells. The  $ED_{50}$  for this effect in the presence of 0.25 ng/ml of recombinant human TNF- $\alpha$ , is 0.05  $\mu$ g/ml.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is  $<0.1$  ng/  $\mu$ g of protein ( $<1$ EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Recombinant Human sTNF Receptor Type I is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Human sTNF Receptor Type I - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Recombinant Human sTNF Receptor Type I - Images**