



*Recombinant Human TNF-Receptor-1*  
(Tumor Necrosis Factor Receptor Type 1)

Catalog Number: 100-35  
Accession Number: NP\_001056

*Specifications and Uses:*

**Alternate Names:** TNFAR, CD120a, TNFRSF1A, TNFR55

**Description:**

TNF Receptor 1 (TNFR1) is expressed in most tissues and is activated by soluble and membrane-bound TNF $\alpha$ . TNFR1 is known to activate NF- $\kappa$ B and MAPK pathways to induce inflammation, promote apoptotic cell death, inhibit tumorigenesis and inhibit viral replication. The soluble form of recombinant human TNFR1 is a non-glycosylated protein, containing 192 amino acids, with a molecular weight of 20.9 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant human TNFR1 is lyophilized from 10 mM Na<sub>2</sub>PO<sub>4</sub>, pH 7.5.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity (typically  $\geq$  97%) determined by:**

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically  $\leq$  1 EU/ $\mu$ g protein.

**Biological Activity:**

The activity is determined by its ability to inhibit the cytolytic effects 0.25 ng/mL TNF $\alpha$  has on mouse L929 cells, in the presence of Actinomycin D, and is typically between 0.045-0.09 ng/mL.

**AA Sequence:**

MDSVCPQGKY IHPQNSICC TKCHKGTLYL NDCPGPGQDT DCRECESSGSF TASENHLRHC LSCSKCRKEM  
GQVEKSSCTV DRDTVCGCRK NQYRHYWSEN LFQCFNCSLC LNGTVHLSCQ EKQNTVCTCH AGFFLRENEC  
VSCSNCKKSL ECTKLCLPQI EN

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

Gentaaur Molecular Products  
Voortstraat 49  
1910 Kampenhout, Belgium