

## TNF R I, Human

**Cat. No.:** Z03104-50

**Size:** 50.0 ug

**Synonyms:** Soluble Tumor Necrosis Factor type I, TNFRSF1A, TNFAR, TNF-R55, TNFR60, p55, CD120a

### Description:

TNF Receptor Type I, is also known as TNF R-p55/p60 and TNFRSF1A. It is a type I transmembrane protein member of the TNF receptor superfamily. It is expressed in most cell types. Binding of either TNF- $\alpha$  or TNF- $\beta$  to TNF-R1 initiates a signal transduction pathway that results in the activation of the transcription factor NF- $\kappa$ B, whose target genes are involved in the regulation of inflammatory responses, and, in certain cells, induce apoptosis. TNF-R1 is essential for proper development of lymph node germinal centers and Peyer's patches and for combating intracellular pathogens such as *Listeria*. It is stored in the Golgi and translocates to the cell surface following proinflammatory stimuli.

### Amino Acid Sequence:

```
00001 DSVCPQGKYI HPQNSICCT KCHKGYLYN DCPGPGQDTD
00041 CRECESGSFT ASENHLRHCL SCSKCRKEMG QVEISSCTVD
00081 RDTVCGCRKN QYRHYWSENL FQCFNCSLCL NGTVHLSCQE
00121 KQNTVCTCHA GFFLRENECV SCSNCKKSLE CTKLCLPQIE
00161 N
```

**Source:** CHO

**Species:** Human

**Biological Activity:** ED<sub>50</sub> < 50 ng/ml, measured in a cell proliferation assay using 929 cells in the presence of 1 ng/ml human TNF- $\alpha$ .

**Molecular Weight:** 28 35 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.

**Purity:** > 95% as analyzed by SDS-PAGE.

**Endotoxin Level:** < 0.2 EU/ $\mu$ g, determined by LAL method.

**Storage:** Lyophilized recombinant Human TNF Receptor Type I remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human TNF Receptor Type I should be stable up to 1 week at 4°C or up to 2 months at -20°C.