



Recombinant Human TNF receptor type I, soluble

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-118S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	7132
Synonyms:	TNFRSF1A; FPF; p55; p60; TBP1; TNF-R; TNFAR; TNFR1; p55-R; CD120a; TNFR55; TNFR60; TNF-R-I; TNF-R55

TNFR1 belongs to the TNFR superfamily of transmembrane proteins, and is expressed in most cell types. Binding of either TNF- α or TNF- β to TNFR1 initiates a signal transduction pathway that results in the activation of the transduction factor NF κ 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- α and TNF- β 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.

Sequence

```
MDSVCPQGKY IHPQNSICC TKCHKGTLYL NDCPGPGQDT
DCRECEGSF TASENHLRHC LSCSKCRKEM GQVEISSCTV
DRDTCVGCRC NQYRHYWSEN LFQCFNCSLC LNGTVHLSCQ
EKQNTVCTCH AGFFLRENEC VSCSNCKKSL ECTKLCLPQI EN
```

Database References

Protein RefSeq:	NP_001056.1
Uniprot ID:	P19438
mRNA RefSeq:	NM_001065.3

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & FPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	162
MW:	18.3 kDa

Biological Activity: Determined by its inhibitory effect of the TNF- α mediated cytotoxicity in murine L-929 cells. The ED50 for this effect in the presence of 0.25 ng/ml of recombinant human TNF- α , is 0.05 µg/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!



ReliaTech GmbH

Specification/Data Sheet