

Recombinant Human TNFRSF1A

Cat. No. TNFRSF1A-592H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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. It is produced in <i>E.coli</i> .
Species	Human
Source	E.coli
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 NFkB, whose target genes are involved in the regulation of inflammatory responses, and, in certain cells induce apoptosis.
Amino Acid Sequence	MDSVCPQGKY IHPQNNSICC TKCHKGTYLY NDCPGPGQDT DCRECESGSF TASENHLRHC LSCSKCRKEM GQVEISSCTV DRDTVCGCRK NQYRHYWSEN LFQCFNCSLC LNGTVHLSCQ EKQNTVCTCH AGFFLRENEC VSCSNCKKSL ECLKLCLPQI EN.
Supplied	Lyophilized powder from a solution of 5 mM Tris pH 8.0. with no additives.
Purity	Greater than 97% by SDS-PAGE and HPLC analyses. Endotoxin level is less than 0.1 ng per g (1EU/g)>98% by SDS-Page analysis.
Reconstitution	Lyophilized protein should be reconstituted in 5mM Tris pH 8.0 to a concentration of

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1mg/ml. to a concentration of 1 mg/ml Allow to set at least 30 minutes at 4°C, mix well. If desired, tighten cap and centrifuge for 1 minute at 1000rpm to concentrate material in vial. This solution can be diluted into other buffered solutions or stored at 4°C for 1 week or at -20°C for long term use. It is recommended that a carrier protein As 0.1% HSA or BSA) or medium serum be added to diluted material.

Reactivity

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

Storage

The lyophilized powder is stable at room temperature for a few weeks but it is best stored desiccated at -20°C. Reconstituted sTNFR1 receptor should be stored in working aliquots at - 20°C. Avoid frequent freeze thaw cycles.

GENE INFORMATION

Gene Name

TNFRSF1A tumor necrosis factor receptor superfamily, member 1A [Homo sapiens]

Synonyms

TNFRSF1A; tumor necrosis factor receptor superfamily, member 1A; FPF; p55; p60; TBP1; TNF-R; TNFAR; TNFR1; p55-R; CD120a; TNFR55; TNFR60; TNF-R-I; TNF-R55; MGC19588; tumor necrosis factor binding protein 1; tumor necrosis factor receptor 1; tumor necrosis factor receptor 1A isoform beta; tumor necrosis factor receptor type 1; tumor necrosis factor-alpha receptor

Gene ID

7132

mRNA Refseq

NM_001065

Protein Refseq

NP_001056

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MIM	191190
UniProt ID	P19438
Chromosome Location	12p13.2
Pathway	Adipocytokine signaling pathway; Alzheimer"s disease; Amyotrophic lateral sclerosis (ALS); Apoptosis; Cytokine-cytokine receptor interaction; MAPK signaling pathway; MAPK signaling pathway; Apoptosis
Function	protein complex binding; receptor activity; tumor necrosis factor receptor activity
PDB rendering based on 1ext.	