

Recombinant Human TNFRSF1B

Cat. No. NFRSF1B-590H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human sTNFRII is an 18.9 kDa protein (174 amino acid residues) comprising the cysteine rich ligand binding portion of the extracellular domain of the TNFR1 protein. It is produced in <i>insect cells</i> .
Species	Human
Source	Insect Cells
Description	TNFRII is a member of the TNFR family of transmembrane proteins, and is expressed in immune cells and certain endothelial cells. It is a high affinity receptor for TNF-alpha but manifests a lower affinity to TNF-beta. Signaling through this receptor regulates various biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, coagulation, and neurotransmission. Soluble TNFRII is capable of inhibiting TNF-alpha induced activities by acting as a decoy receptor.
Amino Acid Sequence	MAPEPGSTCR LREYYDQTAQ MCCSKCSPGQ HAKVFCTKTS DTVCDSCEDS TYTQLWNWVP ECLSCGSRCS SDQVETQACT REQNRICR PGWYCALSKQ EGCRLCAPLR KCRPGFGVAR PGTETSDVVC KPCAPGTFSN TTSSTDICRP HQICNVVAIP GNASMDAVCT STSP.
Supplied	Lyophilized protein from 10mM Tris, pH8.0 + 50mM NaCl.
Note	If this material is not to be used for coating or labeling (or other applications requiring carrier free material), the addition of 0.1% BSA to dilution buffers or dilution in sterile culture media is recommended to enhance stability and minimize absorption to vial.

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	Ideally, maintain stock >50ug/ml.
Purity	>98% by SDS-Page analysis. Endotoxin level is less than 0.1ng per ug (1EU/ug) of human sTNFR2.
Reconstitution	The lyophilized sTNFR2 is soluble in water and most aqueous buffers. The lyophilized powder should first be quick spun in vial, then reconstituted in water to a concentration of 1ug/ul. Allow to set at least 30 minutes at 4°C. If desired, can centrifuge for 1 minute at 1000 rpm to concentrate material in vial. This solution can be diluted into water or other buffered solutions or stored at -20°C for future use.
Reactivity	Determined by its inhibitory effect of the TNF- alpha mediated cytotoxicity in murine L929 cells. The Ed ₅₀ for this effect in the presence of 0.25ng/ml of recombinant human TNF-Ala is 0.125ug/ml.
Storage	The lyophilized powder, though stable at room temperature, is best stored dessicated below 0°C. Reconstituted sTNFR2 should be stored in working aliquots at -20°C. Avoid Frequent Freeze-Thaw Cycles.

GENE INFORMATION

Gene Name	TNFRSF1B tumor necrosis factor receptor superfamily, member 1B [Homo sapiens]
Synonyms	TNFRSF1B; tumor necrosis factor receptor superfamily, member 1B; p75; TBP11; TNFBR; TNFR2; CD120b; TNFR1B; TNFR80; TNF-R75; p75TNFR; TNF-R-II; p75 TNF receptor; tumor necrosis factor beta receptor; tumor necrosis factor binding protein 2
Gene ID	7133

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mRNA Refseq	NM_001066
Protein Refseq	NP_001057
MIM	191191
UniProt ID	P20333
Chromosome Location	1p36.22
Pathway	Adipocytokine signaling pathway; Amyotrophic lateral sclerosis (ALS); Cytokine-cytokine receptor interaction
Function	protein binding; receptor activity; tumor necrosis factor receptor activity

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