

## Recombinant Human TNFRSF1B

**Cat. No.** TNFRSF1B-180H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human sTNFRII produced in <i>E.coli</i> is an 18.9 kDa protein (174 amino acid residues) comprising the cysteine rich ligand binding portion of the extracellular domain of the TNFRII protein.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Purity</b>	> 98% by SDS-PAGE and HPLC analyses.
<b>Endotoxin Level</b>	< 0.1 ng per ug of sTNF-receptor.
<b>Stabilizer</b>	None.
<b>Formulation</b>	Lyophilized.
<b>Biological Activity</b>	Determined by its inhibitory effect of the TNF- $\alpha$ mediated cytotoxicity in murine L-929 cells. The ED <sub>50</sub> for this effect in the presence of 0.25 ng/ml of recombinant human

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TNF- $\alpha$ , is 0.125  $\mu$ g/ml.

**Reconstitution**

We recommend a quick spin followed by reconstitution in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted into other aqueous buffers and stored at -20°C for future use.

**Stability**

The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted sTNFR<sub>II</sub> is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated 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; Tumour necrosis factor receptor 2; Tumour receptor beta receptor; Tumour necrosis factor binding protein 2; Tumour necrosis factor receptor superfamily member 1B; Tumour necrosis factor receptor type II; p80 TNF alpha; receptor; Etanercept; CD120b; p75; TBPII; TNFR<sub>II</sub>; TNFR75; TNFBR; TNFR2; TNFR80; TNFR1B; TNF-R75; p75TNFR; TNF-R-II; TNFRSF1B; p75 TNF receptor; OTTHUMP0000001784; soluble TNFR1B variant 1; tumor necrosis factor beta receptor; tumor necrosis factor binding protein 2; TNF-R2; CD120b antigen

**Gene ID**

7133

**mRNA Refseq**

NM\_001066

**Protein Refseq**

NP\_001057

**MIM**

191191

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<b>UniProt ID</b>	P20333
<b>Chromosome Location</b>	1p36.3-p36.2
<b>Function</b>	protein binding; receptor activity; tumor necrosis factor receptor activity

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