

## 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                                                                                                                                                                                                                                                                                                                                     |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 sTNFRII 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; TNFRII, TNFR75; TNFBR; TNFR2; TNFR80; TNFR1B; TNF-R75; p75TNFR; TNF-R-II; TNFRSF1B; p75 TNF receptor; OTTHUMP00000001784; 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA