

Active Recombinant Human TNFRSF1B, Fc-His

Cat. No. TNFRSF1B-2349H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TNFRSF1B produced in <i>Human Cells</i> encoding the extracellular domain (Met 1-Asp 257) of TNFRII was expressed, fused with a C-terminal his tag.
Species	Human
Source	Human Cells
Protein Length	1-257 a.a.
Description	TNFRII, also known as TNFRSF1B, is a member to the TNFR (tumor necrosis factor receptor) superfamily characterized by cysteine-rich extracellular domains. TNFRII is expressed in fetal brain. The protein is produced naturally as a soluble form (sTNFRII). The soluble receptor inhibits TNFα action by competing with cell surface receptors in binding TNFα, thereby blocking its biologic effects. TNFRII is strongly expressed at the cartilage-pannus junction, and plays a major role in a subset of families with multiple cases of rheumatoid arthritis (RA). Further, high plasma levels of sTNFRII were significantly associated with increased incidence of coronary heart disease, independent of established cardiovascular risk factors, and seems to be useful for monitoring the inflammatory activity of sarcoidosis.
Formulation	Supplied as a 0.2 μ m filtered solution of PBS, pH7.4.
Purity	>97 % as determined by SDS-PAGE.
Endotoxin	< 1.0 EU per

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	1µg of the protein as determined by the LAL method.
Bio-activity	Measured by its ability to inhibit the TNF-α mediated cytotoxicity in the L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is typically 0.68 µg / mL in the presence of 0.25 ng/mL recombinant human TNF-α.
Molecular Mass	The recombinant human TNFRII comprises 246 amino acids and has a calculated molecular mass of 26.7 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh TNFRII is approximately 42-45 kDa due to glycosylation.
Reconstitution	Follow the instructions on the vial. Centrifuge the vial at 4°C before opening to recover the entire contents.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Predicted N Terminal	Leu 23.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted and be used as soon as possible. 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; 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

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Gene ID	7133
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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