Recombinant Human TNFRSF1B

Cat. No. TNFRSF1B-76H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Tumor Necrosis Factor Receptor produced in*CHO*is a dimeric, glycosylated, polypeptide chain consisting of the extracellular ligand-binding portion of the human 75 kilodalton (p75) tumor necrosis factor receptor (TNFR) linked to the Fc portion of human IgG1. The Fc component of TNFR contains the CH2 domain, the CH3 domain and hinge region, but not the CH1 domain of IgG1. It consists of 934 amino acids and has an apparent molecular weight of approximately 150 kilodaltons. The TNFR is purified by standard chromatographic techniques.
Species	Human
Source	CHO
Description	TNFR binds specifically to tumor necrosis factor (TNF) and blocks its interaction with cell surface TNF receptors. TNF is a naturally occurring cytokine that is involved in normal inflammatory and immune responses. It plays an important role in the inflammatory processes of rheumatoid arthritis (RA), polyarticular-course juvenile rheumatoid arthritis (JRA), and ankylosing spondylitis and the resulting joint pathology. Recombinant Human TNFR is a dimeric soluble form of the p75 TNF receptor that can bind to two TNF molecules. TNFR can also modulate biological responses that are induced or regulated by TNF, including expression of adhesion molecules responsible for leukocyte migration (i.e., E-selectin and to a lesser extent intercellular adhesion molecule-1 [ICAM-1]), serum levels of cytokines (e.g., IL-6), and serum levels of matrix metalloproteinase-3 (MMP-3 or stromelysin).

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Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (c) Analysis by SDS-PAGE.
Formulation	Each mg contains 1.6 mg mannitol, 0.4 mg sucrose and 48 g tromethamine.
Solubility	It is recommended to reconstitute the lyophilized TNFR in sterile 18 MΩ-cm H2O not less than 100 g/ml, which can then be further diluted to other aqueous solutions
Biological Activity	Potency is determined by its ability to neutralize TNF-alpha mediated grwoth inhibition of A375 cells, corresponding to a Specific Activity of 1.7 x 10^7 IU/mg.
Storage	Lyophilized Tumor Necrosis Factor Receptor although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution TNFR should be stored at 4℃between 2-7 days and for future use below -18℃. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent 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; TBPII; 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
mRNA Refseq	NM_001066

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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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