

Recombinant Human TNFRSF1A, Fc-His

Cat. No. TNFRSF1A-1908H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Tumor Necrosis Factor Receptor Inhibitor produced in NSO is a disulfide linked homodimer, glycosylated, polypeptide chain. rHuTNFRI/Fc chimera (sTNFRI/Fc chimera) was fused to carboxy-terminal 6X his-tagged Fc part of human IgG1, via a linker peptide.
Species	Human
Source	Mammalian Cells
Description	Tumor necrosis factor receptor superfamily, member 1A, (TNFRI) also known as TNFRSF1A or CD120A is the principal receptor through which many of the pro-inflammatory activities of TNF-alpha are mediated. TNFRI contains a death domain through which it interacts with other death-domain proteins to promote cellular responses. It regulates immune and inflammatory responses.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Glu-Glu-Val-Ser.
Molecular Weight	The predicted molecular weight of Recombinant Human TNF sRI is Mr 48 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 55-60 kDa.
Form	Purified.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Anion-exchange

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	FPLC. (c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.
Dimers & Aggregates	Less than 1% as determined by silver-stained SDS-PAGE gel analysis.
Endotoxin	Less than 0.1 ng/g (IEU/g) of rHusTNFRI.
Protein Content	Protein quantitation was carried out by two independent methods: 1) UV spectroscopy at 280 nm. 2) Analysis by RP-HPLC, using a standard solution of rHusTNFRI as a Reference Standard.
Biological Activity	rHusTNFRI is fully biologically active when compared to standards. The activity was measured by its ability to neutralize apoptosis of mouse L929 cells treated with 0.25 ng/mL rhTNF-a. The ED50 for this effect is typically 0.4-1 ng/mL.
Storage	-20°C (aliquot), avoid repeated freeze and thaw cycles.

GENE INFORMATION

Gene Name	TNFRSF1A tumor necrosis factor receptor superfamily, member 1A [Homo sapiens]
Synonyms	TNFRSF1A; tumor necrosis factor receptor superfamily, member 1A; FPF; p55; p60; TBP1; TNF-R; TNFAR; TNFR1; p55-R; CD120a; TNFR55; TNFR60; TNF-R-I; TNF-R55; MGC19588; Tumor necrosis factor receptor superfamily member 1A; Tumor necrosis factor receptor 1; TNF-RI; TNFR-I; TNF-R1; Tumor necrosis factor-binding protein 1; Tumor necrosis factor receptor superfamily member 1A, membrane form; CD120a antigen; tumor necrosis factor binding protein 1; tumor necrosis factor receptor type 1; tumor necrosis factor-alpha receptor
Gene ID	7132
mRNA Refseq	NM_001065

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Protein Refseq	NP_001056
MIM	191190
UniProt ID	P19438
Chromosome Location	12p13.2
Pathway	Adipocytokine signaling pathway; Alzheimer"s disease; Amyotrophic lateral sclerosis (ALS); Apoptosis; Cytokine-cytokine receptor interaction; MAPK signaling pathway; Apoptosis
Function	protein complex binding; receptor activity; tumor necrosis factor receptor activity

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