Active Recombinant Human TNFRSF1A, Fc&His-tagged

Cat. No. TNFRSF1A-1690H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFRSF1A was expressed in NSO Cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a member of the TNF-receptor superfamily. This protein is one of the major receptors for the tumor necrosis factor-alpha. This receptor can activate NF-kappaB, mediate apoptosis, and function as a regulator of inflammation. Antiapoptotic protein BCL2-associated athanogene 4 (BAG4/SODD) and adaptor proteins TRADD and TRAF2 have been shown to interact with this receptor, and thus play regulatory roles in the signal transduction mediated by the receptor. Germline mutations of the extracellular domains of this receptor were found to be associated with the autosomal dominant periodic fever syndrome. The impaired receptor clearance is thought to be a mechanism of the disease.
Form	Lyophilized.This recombinant protein was 0.2 μm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Bio-activity	The biological activity of Human TNF sRI was determined by measuring its ability to inhibit TNF-α mediated cytotoxicity in L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The expected ED50 for this effect is approximately 0.4 - 1.0 ng/ml in the presence of 0.25 ng/ml rhTNF-α. Each

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	investigator should determine their own optimal working dilution for specific applications.
Molecular Mass	The predicted molecular weight of monomeric Recombinant Human TNF sRI is Mr 48 kDa. However, the actual molecular weight as observed by migration on SDS-PAGE under reducing conditions is Mr 60-66 kDa. TNF sRI is expressed in NSO cells as a disulfide-linked homodimer.
AA Sequence	(lvphlgdrekr) dsvcpqgkyi hpqnnsicct kchkgtylyn dcpgpgqdtd crecesgsft asenhlrhcl scskcrkemg qveissctvd rdtvcgcrkn qyrhywsenl fqcfncslcl ngtvhlscqe kqntvctcha gfflrenecv scsnckksle ctklclpqie vkgtedsgtt niegrmdksc dkthtcppcp apellggpsv flfppkpkdt lmisrtpevt cvvvdvshed pevkfnwyvd gvevhnaktk preeqynsty rvvsvltvlh qdwlngkeyk ckvsnkalpa piektiskak gqprepqvyt lppsrdeltk nqvsltclvk gfypsdiave wesngqpenn ykttppvlds dgsfflyskl tvdksrwqqg nvfscsvmhe alhnhytqks lslspgkhhh hhh
Endotoxin	<1.0 EU/μg as determined by the LAL method
Purity	>95% by SDS-PAGE and analyzed by silver stain.
Storage	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	TNFRSF1A tumor necrosis factor receptor superfamily, member 1A [Homo sapiens (human)]
Official Symbol	TNFRSF1A

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Synonyms	TNFRSF1A; FPF; MS5; p55; p60; TBP1; TNF-R; TNFAR; TNFR1; p55-R; CD120a; TNFR55; TNFR60; TNF-R-I; TNF-R55; TNFR1-d2; tumor necrosis factor receptor superfamily, member 1A; tumor necrosis factor receptor superfamily member 1A; TNF-R1; TNF-RI; TNFR-I; tumor necrosis factor-alpha receptor; tumor necrosis factor receptor type 1; tumor necrosis factor binding protein 1; tumor necrosis factor receptor 1A isoform beta
Gene ID	7132
mRNA Refseq	NM_001065
Protein Refseq	NP_001056
MIM	191190
UniProt ID	P19438
Chromosome Location	12p13.2
Pathway	Adipocytokine signaling pathway; Amyotrophic lateral sclerosis (ALS); Canonical NF-kappaB
Function	protease binding; protein complex binding; tumor necrosis factor-activated receptor activity

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