

TNFR Mouse

Description: TNFR Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 191 amino acids and having a molecular mass of 21.1kDa. The TNFR is purified by proprietary chromatographic techniques.

Synonyms: Tumor necrosis factor receptor superfamily member 1A, Tumor necrosis factor receptor 1, TNF-R1, Tumor necrosis factor receptor type I, TNF-RI, TNFR-I, p55, p60, CD120a, Tnfrsf1a, Tnfr-1, Tnfr1, FPF, TNF-R, TNFAR, TNFRI, p55-R, TNFR60, Tnfr-2, TNF-R-I, TNF

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: IHPSGVTGLV PSLGDREKRD SLCPQGKYVH SKNNSICCTK
CHKGTYLVSD CPSPGRD TVC RECEKGTFTA SQNYLRQCLS CKTCRKEMSQ VEISPCQADK
DTVCGCKENQ FQRYLSETHF QCVDCSPCFN GTVTIPCKET QNTVCNCHAG FFLRESECV
CSHCKKNEEC MKLCLPPPLA NVTNPQDSGT A.

Purity: Greater than 97.0% as determined by SDS-PAGE.

Formulation:

TNFR protein was lyophilized from a 0.2

Stability:

Lyophilized TNFR although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution TNFR should be stored at 4C between 2-7 days and for future use below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized TNFR in sterile 18M-cm H₂O not less than 100

Introduction:

TNFR1 belongs to the TNF-receptor superfamily. TNFR1 is a receptor for TNFSF2/TNF-alpha and homotrimeric TNFSF1/lymphotoxin-alpha. There are 2 types of soluble TNF receptors: sTNFR-I and sTNFR-II, which act to neutralize the biological activities of TNF alpha and TNF beta. The levels of these soluble receptors seem to increase as a result of shedding of the extracellular domains of the membrane bound receptors. TNF-a, TNFR1 and TNFR2 have roles in cellular differentiation. TNFR1 and TNFR2 function in cell type-specific renal injury. TNFR1 is capable of signaling both cell survival and apoptosis. TNFR1-induced apoptosis requires 2 sequential signaling complexes. TNFR1 is capable of activating NF-kappaB, mediate apoptosis, and function as a regulator of inflammation. Oxidative stress promotes TNFR1 and TNFR2 self-interaction, ligand-independent and enhanced ligand-dependent TNF signaling. TNFR1 contributes to the induction of non-cytocidal TNF effects including anti-viral state and activation of the acid sphingomyelinase. Human TNFR1 has a major region which controls cell surface expression. High

levels of soluble TNF receptors are found in the amniotic fluid of pregnant women. Germline mutations of the extracellular domains of TNFR1 are linked to the autosomal dominant periodic fever syndrome. The impaired receptor clearance is believed to be a mechanism of the disease. Familial hibernian fever (FHF) is caused by defects in TNFRSF1A gene.

Catalog #:CYP5-781

Biological Activity:

The ED50 as determined by its ability to inhibit the TNF- mediated cytotoxicity in the L-929 cells is less than 1.0 µg/ml, corresponding to a specific activity of > 1000 IU/mg in the presence of 0.1 ng/mL of rMuTNF-α.

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