

32-1796: TNFR (22-211) Recombinant Protein

Alternative Name : CD120a, FPF, MS5, p55, p55-R, p60, TBP1, TNF-R, TNF-R-I, TNF-R55, TNFAR, TNFR1, TNFR1-d2, TNFR55, TNFR60, Tumor necrosis factor receptor superfamily member 1A, Tumor necrosis factor receptor superfamily member 1A.

Description

Source : Escherichia Coli. TNFR Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 213 amino acids (22-211 a.a) and having a molecular mass of 23.6kDa. TNFR is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 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.

Product Info

Amount : 20 µg
Purification : Greater than 85% as determined by SDS-PAGE.
Content : TNFR protein solution (1mg/ml) containing 20mM Tris-HCl (pH8.0) and 10% glycerol.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSYIPSGVI GLVPHLGDRK RDSPVCPQ GK YIHPQNNSIC
CTKCHKGTYL YNDCPGPGQD TDCRECESGS FTASENHLRH CLSCSKCRKE MGQVEISSCT
VDRDTVCGCR KNQYRHYWSE NLFQCFNCSL CLNGTVHLSC QEKQNTVCTC HAGFFLRENE
CVSCSNCKKS LECTKLCLPQ IENVKGTEDS GTT.

