

Active Recombinant Mouse Tnf Protein (163 aa), His-tagged

Cat. No. Tnf-305T Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Tumor Necrosis Factor-alpha (rmTNF-alpha) produced in E. coli is a non-glycosylated polypeptide chain of 163 amino acids. A fully biologically active molecule, rhTNF-alpha has a molecular mass of 18.3kDa analyzed by reducing SDS-PAGE and is obtained by proprietary refolding and chromatographic techniques.
Species	Mouse
Source	E.coli
ProteinLength	163
Description	Tumor Necrosis Factor-Alpha (TNF-alpha) plays a major role in growth regulation, differentiation, inflammation, viral replication, tumorigenesis, and autoimmune diseases. Besides inducing hemorrhagic necrosis of tumors, TNF has been found to be involved in tumorigenesis, tumor metastasis, viral replication, septic shock, fever, inflammation, and autoimmune diseases including Crohn's disease, and rheumatoid arthritis as well as graft-versus-host disease. TNF alpha-1a is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50< 0.05 ng/mL, measured in a cytotoxicity assay using L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D, corresponding to a specific activity of > 27units/mg.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	18.3kDa, observed by reducing SDS-PAGE.
AA Sequence	MHHHHHMLRSSSQNSSDKPVAHVVANHQVEEQLEWLSQRANALLANGMDLKDN QLVVPADGLYLVYSQVLFGQGCPDYVLLTHTVSRFAISYQEKVNLLSAVKSPCPKD TPEGAELKPWYEPIYLGGVFQLEKGDQLSAEVNLPKYLDFAESGQVYFGVIAL
Endotoxin	< 1 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by reducing SDS-PAGE.
Storage	Lyophilized recombinant mouse Tumor Necrosis Factor-alpha (rmTNF-s1pha) remains stable up to 12 months at -80 centigrade from date of receipt. Upon reconstitution, rmTNF-alpha should be stable up to 4 week at 4 centigrade or up to 6 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O at 100 μg/mL.

GENE INFORMATION

Gene Name	Tnf tumor necrosis factor [<i>Mus musculus</i>]
Official Symbol	Tnf
Synonyms	TNF; tumor necrosis factor; TNF-a; TNF alpha; cachectin; tumor necrosis factor alpha; tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member 2; DIF; Tnfa; TNFSF2; Tnfsf1a; TNFalpha; TNF-alpha; MGC151434;
Gene ID	21926

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

mRNA Refseq	NM_013693
Protein Refseq	NP_038721
UniProt ID	P06804

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA