

RMCM038

Recombinant TNF alpha (Tumor necrosis factor alpha),
Mouse ,AF



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5ug;20ug;100ug;500ug;

Synonym/Alternative name(s):

TNFSF2, Cachectin, Differentiation-inducing factor (DIF), Necrosin, Cytotoxin, TNS_x0002_F1A, TNF-a

Activity:

Measure by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D.

The ED50 for this effect is <40 pg/mL.

The specific activity of recombinant mouse TNF alpha is approximately >2.5x 10⁷ IU/mg.

Protein Description:

TNF-α is a kind of pleiotropic pro-inflammatory cytokine. It is secreted by various cells, such as adipocytes, activated monocytes, macrophages, B cells, T cells and fibroblasts. Proteolysis of the integral membrane precursor form of TNF-α from cells soluble can release homotrimeric TNF-α. TNF-α can bind with some TNF-α receptors induces apoptosis, besides, also trigger other responses depending on cell type, receptor expression, and signal transduction status. TNF-α participate in the inflammatory response.

Protein Accession : P06804.29(Mouse), P16599.1(Rat)

Gene ID : 21926(Mouse), 24835(Rat)

Expression Sequence:

MLRSSSQNSSDKPVAHVVANHQVEEQLEWLSQRANALLANGMDLKDNLVVPADGLYLVSQVLFKGGQCPDYVLLTHTVSRFAISY QEKVNLLSAVKSPCKDTPEGAELKPWYEPYIYLGGVFQLEKGDQLSAEVNLPKYL DFAESGQVYFGVIAL with polyhistidine tag at the C-terminus.

Fusion tag : His-tag?at?the?C-terminus

Species : Mouse

Reactivity : Mouse

Expression Host : Escherichia coli

Source : E. coli

Purity/method:

>98% as determined by SDS-PAGE. Ni-NTA chromatography

Endotoxin level:

<0.1 EU per 1 μg of the protein by the LAL method.

Calculated Molecular Weight : 18.20 kDa

Formulation:

The protein was lyophilized from a solution containing 1X PBS, pH 8.0.

Reconstitution:

It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping : Blue Ice

Stability and Storage:

Lyophilized protein should be stored at -20°C for 1 year.

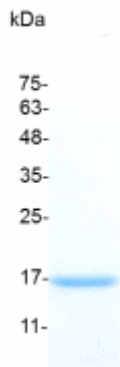
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category : Cytokines

Application : Cell culture, Elisa

Image:



SDS- PAGE analysis of recombinant mouse TNF alpha