

Active Recombinant Canine TNF-alpha Protein, His-tagged, Active trimer

Cat. No. TNF-11159C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Canine TNF-alpha, His Tag is expressed from human 293 cells (HEK293). It contains AA Val 77 - Leu 233 (Accession # P51742-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Val 77
Species	Canine
Source	HEK293
ProteinLength	77-233 aa
Description	Tumor necrosis factor alpha (TNFα) is a cytokine produced primarily by monocytes and macrophages. It is found in synovial cells and macrophages in the tissues. The primary role of TNFα is in the regulation of immune cells. TNFα is able to induce apoptotic cell death, to induce inflammation, and to inhibit tumorigenesis and viral replication. Dysregulation of TNFα production has been implicated in a variety of human diseases, including major depression, Alzheimer's disease and cancer. Recombinant TNFα is used as an immunostimulant under the INN tasonermin. TNFα can be produced ectopically in the setting of malignancy and parallels parathyroid hormone both in causing secondary hypercalcemia and in the cancers with which excessive production is associated.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

 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

Bio-activity	Immobilized Humira at 5 µg/mL (100 µL/well) can bind Canine TNF-alpha, His Tag with a linear range of 0.3-1 ng/mL.
Molecular Mass	The protein has a calculated MW of 18.6 kDa. The protein migrates as 19-22 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [<i>Canis lupus familiaris</i>]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; TNF-a; TNF-alpha; cachectin; tumour necrosis factor; tumor necrosis factor alpha; tumor necrosis factor (TNF superfamily, member 2); tumor necrosis factor ligand superfamily member 2; TNFA; cTNF;
Gene ID	403922

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mRNA Refseq	NM_001003244
Protein Refseq	NP_001003244
UniProt ID	P51742

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