

## TNF

### Recombinant Canine Tumor Necrosis Factor-alpha

<b>Catalog No.</b>	CS498A CS498B CS498C	<b>Quantity:</b>	5 µg 20 µg 1 mg
<b>Alternate Names:</b>	TNFA, cTNF, cachectin, tumor necrosis factor ligand superfamily member 2		
<b>Description:</b>	<p>Tumor necrosis factor alpha (TNF-alpha), also called cachectin, is produced by neutrophils, activated lymphocytes, macrophages, NK cells, LAK cells, astrocytes endothelial cells, smooth muscle cells and some transformed cells. TNF-alpha occurs as a secreted, soluble form and as a membrane-anchored form, both of which are biologically active. The naturally-occurring form of TNF-alpha is glycosylated, but non-glycosylated recombinant TNF-alpha has comparable biological activity. The biologically active native form of TNF-alpha is reportedly a trimer. Two types of receptors for TNF-alpha have been described and virtually all cell types studied show the presence of one or both of these receptor types.</p> <p>Recombinant Canine TNF-alpha a single non-glycosylated polypeptide chain containing 157 amino acids.</p>		
<b>Gene ID:</b>	403922		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	~17.3 kDa		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 1 × PBS, pH 7.0.		
<b>Purity:</b>	>95% by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	<1 EU/µg as determined by LAL method.		
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> determined by a cytotoxicity assay using mouse L929 cells is less than 0.1 ng/ml		
<b>Specific Activity:</b>	>1.0 × 10 <sup>7</sup> IU/mg in the presence of actinomycin D.		
<b>Amino Acid Sequence:</b>	VKSSSRTPSD KPVAHVVANP EAEGQLQWLS RRANALLANG VELTDNQLIV PSDGLYLIYS QVLFKGQGCP STHVLLTHTI SRFVSYQTK VNLLSAIKSP CQRETPEGTE AKPWYEPIYL GGVFQLEKGD RLSAEINLPN YLDFAESGQV YFGIIAL		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. This depends upon the particular application employed. Further dilutions should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	This lyophilized preparation is stable at 2-8°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. <b>Avoid repeated freeze/thaw cycles.</b>		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

