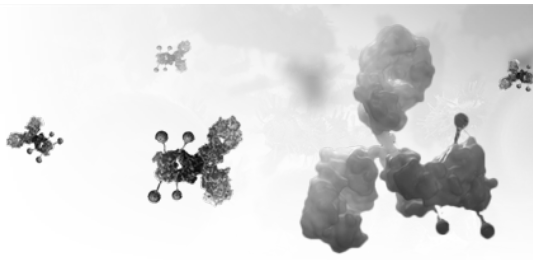

Rat Tumor Necrosis Factor alpha (DAG287)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rat TumorNecrosis Factor alpha (TNF-a), Recombinant. Recombinant Rat TNF-alpha is asingle, non-glycosylated, polypeptide chain containing 157 amino acids andhaving a molecular weight of 17,339.44 Da. The sequence of the first fiveN-terminal amino acids wa
Antigen Description	Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR.It is mainly secreted by macrophages and can induce cell death of certaintumor cell lines. It is potent pyrogen causing fever by direct action or bystimulation of interleukin-1 secretion and is implicated in the induction ofcachexia, Under certain conditions it can stimulate cell proliferation andinduce cell differentiation.
Species	Rat
Conjugate	Unconjugated
Applications	The ED50as determined by the cytolysis of murine L929 cells in the presence ofActinomycin D is and lt;0.05ng/ml, corresponding to a specific activity of 5 x107 IU/mg. Each laboratory should determine an optimum workingtiter for use in its particular appli
Format	Purified, Lyophilized. Reconstitute using sterile deionized water to a concentration 100µg/ml. Further dilutions can be made in other aqueou buffers.
Concentration	1 mg/ml(OD280nm, E0.1% = 1.25) (prior to lyophilization)
Buffer	Notapplicable
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

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Introduction	This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine.
Keywords	TNF; tumor necrosis factor; DIF; TNFA; TNFSF2; TNF-alpha; tumor necrosis factor (TNF superfamily, member 2); superfamily, member 2; Tumor necrosis factor; Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a; Tumor necrosis facto

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