

Overview

Synonyms	TNF-alpha, Tumornecrosis factor ligand super family member 2, TNF-a, Cachectin, DIF, TNFA, TNFSF 2
Description	<p>Tumor Necrosis Factor-Alpha (TNF-alpha) plays a major role in growth regulation, differentiation, inflammation, viral replication, tumorigenesis, and autoimmune disease. 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 disease including Crohn's disease, rheumatoid arthritis and 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.</p> <p>Recombinant Porcine Tumor Necrosis Factor-alpha (TNF-±) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 155 amino acids. A fully biologically active molecule, rpTNF-± has a molecular mass of 17.2 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	P02775
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ <20 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 >5 x 10 ⁴ units/mg.
Sequence	<p>RSSSQTSDKP VAHVVANVKA EGQLQWQSGY ANALLANGVK LKDNQLVVPT DGLYLIYSQV LFRGQGCPSTNVFLTHTISR IAVSYQTKVN LLSAIKSPCQ RETPEGAEAK PWYEPYLLGG VFQLEKDDRL SAEINLPDYLDFAESGQVYF GIIAL</p>

Properties

Measured Molecular Weight	17.2 kDa, observed by reducing SDS-PAGE.
Purity	> 98% as analyzed by SDS-PAGE&HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Porcine Tumor Necrosis Factor-alpha (rpTNF-±) remains stable up to 6 months at lower than -70°C from date of receipt. Upon recons titution, rpTNF-± should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only

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