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Recombinant Porcine TNF-alpha

Description: Tumor necrosis factor is a cytokine involved in systemic inflammation and is a member of a group of cytokines that all stimulate the acute phase reaction. TNF is mainly secreted by macrophages. TNF causes apoptotic cell death, cellular proliferation, differentiation, inflammation, tumorigenesis and viral replication, TNF is also involved in lipid metabolism, and coagulation. TNF's primary role is in the regulation of immune cells. Dysregulation and, in particular, overproduction of TNF have been implicated in a variety of human diseases- autoimmune diseases, insulin resistance, and cancer.
TNF-alpha produced in E.coli is a single, non-glycosylated, polypeptide chain containing 157 amino acids and having a molecular mass of 17,2 kDa.

Source:	E.coli
Molecular Weight:	17.2 kDa
Purity:	> 95% by SDS-PAGE and RP-HPLC
Endotoxin level:	< 0.1 ng/µg of porcine TNF-alpha
Formulation:	lyophilized

Biological Activity: The ED_{50} as determined by the cytotoxicity of porcine PK15 cells was found to be < 0.008ng/ml.

Reconstitution: It is recommended to reconstitute the lyophilized TNF-alpha in sterile H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized TNF-alpha although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TNF-alpha should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Avoid repeated freeze-thaw cycles.**

Usage: Porcine TNF-alpha beta is offered for research use. Not for drug use. **Not for human use.**

Catalogue number:	P40-001	**Size:**	20 µg

**** Please note: always centrifuge product before opening vial!****