

Active Recombinant Pig TNF Protein (Leu77-Leu232), C-His tagged, Animal-free, Carrier-free

Cat. No. TNF-202P Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Pig TNF Protein (Leu77-Leu232) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Pig
Source	E.coli
ProteinLength	Leu77-Leu232
Description	Tumor necrosis factor alpha (TNF alpha) stimulates the acute phase of the immune response. In response to a pathogen, TNF alpha is one of the first to be released and can apply its effects in many organs. TNF alpha stimulates the release of corticotrophic releasing hormone, suppresses appetite, and induces fever, in the hypothalamus. TNF increase vasodilation and loss of vascular permeability, it helps recruit lymphocyte, neutrophil, and monocyte to the inflammation site by regulating chemokine release.
Form	Lyophilized
Bio-activity	Measure by its ability to induce cytotoxicity in PK15 cells in the presence of the actinomycin D. The ED50 for this effect is < 15 pg/mL.
Molecular Mass	The protein has a calculated MW of 18.1 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).

 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

Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [<i>Sus scrofa</i>]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; TNF-α; TNF-alpha; cachectin; tumor-necrosis factor; tumor necrosis factor alpha; tumor necrosis factor (TNF superfamily, member 2); tumor necrosis factor ligand superfamily member 2; TNFα;
Gene ID	397086
mRNA Refseq	NM_214022

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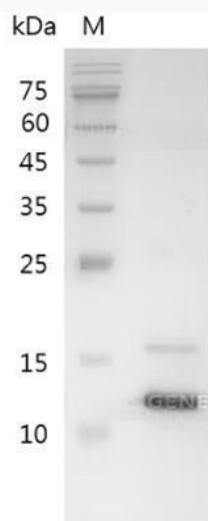
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Protein Refseq NP_999187

UniProt ID P23563

SDS-PAGE analysis
of recombinant
swine TNF alpha.



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