For Research Use Only Recombinant Mouse TNF-alpha protein (Myc Tag, His Tag)



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Catalog Number: Eg31366

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: Myc Tag, His Tag
Technical Specifications	Purity: >90 %, SDS-PAGE		
	Endotoxin Level: <0.1 EU/ µ g protein, L	AL method	
	Source: HEK293-derived Mouse TNF-alpha protein Leu80-Leu235 (Accession# P06804) with a Myc tag and a His tag at the C-terminus.		
	GenelD: 21926		
	Accession: P06804		
	Predicted Molecular M 22.3 kDa	lass:	
	<mark>SDS-PAGE:</mark> 22-26 kDa, reducing (F	R) conditions	
	Formulation: Lyophilized from 0.22 protectants before lyo	μ m filtered solution in PBS, pH 7.4. Normal ophilization.	ly 5% trehalose and 5% mannitol are added as
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended the	at the protein be aliquoted for optimal store	ge. Avoid repeated freeze-thaw cycles.
	 Until expiry date, -20°C to -80°C as lyophilized proteins. 3 months, -20°C to -80°C under sterile conditions after reconstitution. 		
	Shipping: The product is shipped temperature.	d at ambient temperature. Upon receipt, sto	re it immediately at the recommended
Reconstitution	Briefly centrifuge the	tube before opening. Reconstitute at 0.1-0.	.5 mg/mL in sterile water.
Background	TNF, also known as TNF-alpha, or cachectin, is a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. It is expressed as a 26 kDa membrane bound protein and is then cleaved by TNF-alpha converting enzyme (TACE) to release the soluble 17 kDa monomer, which forms homotrimers in circulation. It is produced chiefly by activated macrophages, although it can be produced by many other cell types such as CD4+ lymphocytes, NK cells, neutrophils, mast cells, eosinophils, and neurons. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFRS. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. Mouse and human TNF-alpha share 79% amino acid sequence identity. Unlike human TNF-alpha, the mouse form is glycosylated. In mouse deficiency of this gene is associated with defects in response to bacterial infection, with defects in forming organized follicular dendritic cell networks and germinal centers, and with a lack of primary B cell follicles.		
References	1. Agbanoma G. et al. (2 2. Kriegler M. et al. (19 3. Theiss AL. et al. (200 4. Swardfager W. et al. 5. Locksley RM.et al. (2 6. provided by RefSeq,	2012) J Immunol. 188: 1307-17. 88) Cell. 53: 45-53. 5) J Biol Chem. 280: 36099-109. (2010) Biol Psychiatry. 68:930-41. 001) Cell. 104(4):487-501. Jun 2013	
Synonyms	Tnf, Tnfa, DIF, TNF a, TN	Falpha	

Selected Validation Data



Purity of Recombinant Mouse TNF-alpha was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.