For Research Use Only Recombinant Human TNF-alpha protein (His Tag)



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Catalog Number: Eg0816

Basic Information	<mark>Species:</mark> Human	Purity: >90 %, SDS-PAGE	Tag: His Tag		
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Human TNF-alpha protein Val77-Leu233 (Accession# P01375) with a His tag at the C-terminus.				
	GenelD: 7124 Accession: P01375				
	Predicted Molecular Mass: 18.2 kDa SDS-PAGE:				
	15-18 kDa, reducing (R) condi Formulation:	ered solution in PBS, pH 7.4. Normall	y 5% trehalose and 5% mannitol are added as		
Biological Activity	Not tested				
Storage and Shipping	Storage: It is recommended that the p	rotein be aliquoted for optimal stora	ge. Avoid repeated freeze-thaw cycles.		
	 Until expiry date, -20 3 months, -20°C to -8 	$^\circ\mathbb{C}$ to -80 $^\circ\mathbb{C}$ as lyophilized proteins. 30 $^\circ\mathbb{C}$ under sterile conditions after re	constitution.		
	Shipping: The product is shipped at amb temperature.	pient temperature. Upon receipt, stor	e it immediately at the recommended		
Reconstitution	Briefly centrifuge the tube be	efore opening. Reconstitute at 0.1-0.	5 mg/mL in sterile water.		
Background	TNF, as also known as TNF-alp the tumor necrosis factor (TN cleaved by TNF-alpha convert homotrimers in circulation. It many other cell types such as It can bind to, and thus functii involved in the regulation of a differentiation, apoptosis, lip implicated in a variety of hum inflammatory bowel disease f	na, or cachectin, is a multifunctional p F) superfamily. It is expressed as a 26 ing enzyme (TACE) to release the solu is produced chiefly by activated mac CD4+ lymphocytes, NK cells, neutrop ons through its receptors TNFRSF1A/ a wide spectrum of biological proces id metabolism, and coagulation. Dysr an diseases including Alzheimer's di IBD).	proinflammatory cytokine that belongs to kDa membrane bound protein and is then ible 17 kDa monomer, which forms rophages, although it can be produced by whils, mast cells, eosinophils, and neurons. INFR1 and TNFRSF1B/TNFBR. This cytokine is ses including cell proliferation, egulation of TNF production has been sease, cancer, major depression and		
References	1.F Buchegger. et al. (1984). In 2.Linshu Zhao. et al. (2004). Br 3.M Kuroki. et al. (2001). J Leul 4.S Oikawa. et al. (1991). J Biol 5.T Yamanka. et al. (1996). Biod	J Haematol. 125(5):666-673. (oc Biol. 70(4):543-550.	2-847.		
Synonyms	TNF, TNF alpha, TNF-a, C-doma	in 1, C-domain 2			

Selected Validation Data

		R	NR
250 kDa→	-		
150 kDa→	-1		
100 kDa→	-		
70 kDa→	-		
50 kDa→	-		
40 kDa→	-		
30 kDa→	-		
20 kDa→	-	_	
15 kDa→	-	-	-
10 kDa →	-		

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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.