

TNF alpha Protein, Cynomolgus, Recombinant, Biotinylated

General Information

Synonyms:	tumor necrosis factor;TNF- α
Protein Construction:	A DNA sequence encoding the cynomolgus TNF (NP_001272206.1) (Val77-Leu233) was expressed and purified with an initial Met. The purified protein was biotinylated in vitro. Predicted N terminal: Met
Species:	Cynomolgus
Expression Host:	E. coli
Accession:	P79337
Molecular Weight:	17.4 kDa (predicted)

QC Testing

Biological Activity:	1.Immobilized Anti-TNF α (Adalimumab Biosimilar) at 5 μ g/mL (100 μ L/well) can bind Recombinant Cynomolgus TNF-alpha/TNFA Protein, Biotinylated (Cat#TMPY-05516), the EC50 is 2.1-6.2 ng/mL (Routinely tested). 2.Immobilized Recombinant Cynomolgus/Rhesus TNFR2/CD120b/TNFRSF1B Protein (Fc Tag) (Cat#TMPY-03588) at 5 μ g/mL (100 μ L/well) can bind Recombinant Cynomolgus TNF-alpha/TNFA Protein, Biotinylated (Cat#TMPY-05516), the EC50 is 3.7-11.2 ng/mL (QC tested).
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Tumor necrosis factor alpha (TNF-alpha), also known as TNF, TNFA or TNFSF2, is the prototypic cytokine of the TNF superfamily, and is a multifunctional molecule involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. Two receptors, TNF-R1 (TNF receptor type 1; CD120a; p55/60) and TNF-R2 (TNF receptor type 2; CD120b; p75/80), bind to TNF-alpha. TNF-alpha protein is produced mainly by macrophages, and large amounts of this cytokine are released in response to lipopolysaccharide, other bacterial products, and Interleukin-1 (IL-1). TNF-alpha is involved in fighting against the tumorigenesis, thus, is regarded as a molecular insight in cancer treatment. TNF-alpha Protein & Antibody Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

Reference

Hector J, et al. (2007) TNF-alpha alters visfatin and adiponectin levels in human fat. *Horm Metab Res.* 39(4): 250-5.
Berthold-Losleben M, et al. (2008) The TNF-alpha System: Functional Aspects in Depression, Narcolepsy and Psychopharmacology. *Curr Neuropharmacol.* 6(3): 193-202.

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