


Human TNF- β protein

Cat #: PRP100078

Size: 100 μ g/1mg

Product Information

	Product Name: Human TNF- β protein		
REF	Catalog Number: PRP100078	LOT	Lot Number: Refer to product label
	Purity: > 97 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E. coli
	Shipping: The product is shipped at ambient temperature.		

Background: Lymphotoxin-alpha, also known as LT-alpha, TNF- β , Tumor necrosis factor ligand superfamily member 1, LTA TNFSF1 and TNFB, is a secreted protein which belongs to the tumor necrosis factor family. TNF- β /TNFSF1/Lymphotoxin alpha is a highly inducible, secreted, and exists as homotrimeric molecule. It is a cytokine that in its homotrimeric form binds to TNFRSF1A / TNFR1, TNFRSF1B / TNFR2 and TNFRSF14 / HVEM. In its heterotrimeric form with LTB, TNF- β /TNFSF1/Lymphotoxin alpha binds to TNFRSF3 / LTBR. Lymphotoxin is produced by lymphocytes and cytotoxic for a wide range of tumor cells. TNF- β /TNFSF1/Lymphotoxin alpha forms heterotrimers with lymphotoxin-beta which anchors lymphotoxin-alpha to the cell surface. It mediates a large variety of inflammatory, immunostimulatory, and antiviral responses. TNF- β /TNFSF1/Lymphotoxin alpha is also involved in the formation of secondary lymphoid organs during development and plays a role in apoptosis. Genetic variations in TNF- β /TNFSF1/Lymphotoxin alpha are a cause of susceptibility psoriatic arthritis which is an inflammatory, seronegative arthritis associated with psoriasis. It is a heterogeneous disorder ranging from a mild, non-destructive disease to a severe, progressive, erosive arthropathy.

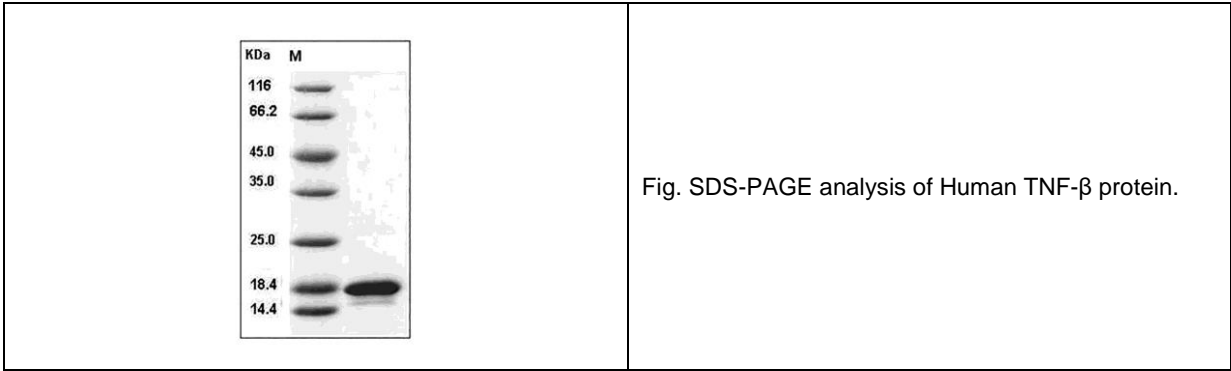
Sequence: Amino acid sequence derived from mature form of human TNF β (P01374) (Leu 35-Leu 205) was expressed and purified, with an initial Met at the N-terminus.

Protein length: The recombinant human TNF β comprises 172 amino acids and predicts a molecular mass of 18.8 kDa as estimated in SDS-PAGE under reducing conditions.

Formulation: Lyophilized from sterile 50mM Tris, pH 8.0.

Storage Instructions: Lyophilized Human TNF- β protein product should be stored desiccated below -18°C. Upon reconstitution, the protein 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). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human TNF- β protein in sterile ddH₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.



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