

TNF beta Recombinant Protein | LTA recombinant protein

TNF beta Protein, Human, Recombinant

CATALOG #
AAA257408

HOST
E Coli

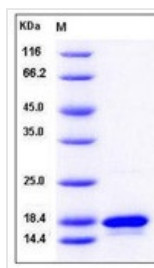
PRODUCT SYNONYMS

TNF beta; TNF beta Protein; Human; Recombinant; Human TNF-beta/TNFSF1/Lymphotoxin alpha Protein; lymphotoxin alpha; LT Protein; TNFB Protein; TNFSF1 Protein; LTA recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>97 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 50mM Tris, pH8.0 Normally 5% trehalose, 5% mannitol and 0.01% Tween-80.
Sequence Positions	172aa
Sequence	Leu35-Leu2 05
Source	Human
Predicted N Terminal	Met
Molecular Mass	The recombinant human TNF β comprises 172 amino acids and predicts a molecular mass of 18.8kDa as estimated in SDS-PAGE under reducing conditions.
Reconstitution	It is reconstituted that sterile water (400ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV-Vis
Protein Construction	JA DNA sequence encoding the mature form of human TNF β (P01374) (Leu 35-Leu 205) was expressed and purified, with an initial Met at the N-terminus
Bio Activity	Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is typically 0.01-0.1ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for LTA recombinant protein	Lymphotoxin-alpha, also known as LT-alpha, TNF-beta, Tumor necrosis factor ligand superfamily member 1, LTA TNFSF1, and TNFB, is a secreted protein that belongs to the tumor necrosis factor family. TNF-beta/TNFSF1/Lymphotoxin alpha is highly inducible, secreted, and exists as a homotrimeric molecule. It is a cytokine that in its homotrimeric form binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFR, and TNFRSF14/HVEM. In its heterotrimeric form with LTB, TNF-beta/TNFSF1/Lymphotoxin alpha binds to TNFRSF3/LTBR. Lymphotoxin is produced by lymphocytes and cytotoxic for a wide range of tumor cells. TNF-beta/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-beta/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-beta/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.
Product Categories/Family for LTA recombinant protein	Neuroinflammation
References	Messer G, et al. (1991) Polymorphic structure of the tumor necrosis factor (TNF) locus: an NcoI polymorphism in the first intron of the human TNF-beta gene correlates with a variant amino acid in position 26 and a reduced level of TNF-beta production. J Exp Med. 173(1): 209-19.Banner DW, et al. (1993) Crystal structure of the soluble human 55 kd TNF receptor-human TNF beta complex: implications for TNF receptor activation. Cell. 73(3): 431-45.Picarella DE, et al. (1993) Transgenic tumor necrosis factor (TNF)-alpha production in pancreatic islets leads to insulinitis, not diabetes. Distinct patterns of inflammation in TNF-alpha and TNF-beta transgenic mice. J Immunol. 150(9): 4136-50.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31880318
NCBI GeneID	4049
UniProt Accession #	P01374; Q8N4C3; Q9UKS8
NCBI Official Full Name	lymphotoxin alpha
NCBI Official Synonym Full Names	lymphotoxin alpha
NCBI Official Symbol	LTA
NCBI Official Synonym Symbols	LT; TNFB; TNFSF1
NCBI Protein Information	lymphotoxin-alpha; LT-alpha; TNF-beta; TNF superfamily, member 1; tumor necrosis factor beta; tumor necrosis factor ligand superfamily member 1
UniProt Protein Name	Lymphotoxin-alpha
UniProt Gene Name	LTA
UniProt Synonym Gene Names	TNFB; TNFSF1; LT-alpha
UniProt Entry Name	TNFB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.