
Product Data Sheet

Product Name: TNF B Human, Sf9
 Cat. No.: GP20981
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Lymphotoxin-alpha; LT-alpha; TNF-beta; Tumor necrosis factor ligand superfamily member 1; LTA; LT; TNFB; TNFSF1.		
Amino Acid Sequence	ADPLPGVGLT PSAAQTARQH PKMHLAHSTL KPAAHLIGDP SKQNSLLWRA NTDRAFLQDG FLSLNNSLLV PTSGIYFVYS QVVFSGKAYS PKATSSPLYL AHEVQLFSSQ YPFHVPLLSS QKMVYPGLQE PWLHSMYHGA AFQLTQGDQL STHTDGIPHL VLSPSTVFFG AFALHHHHHH.		
Formulation	TNFB protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH7.4) and 10% glycerol.		

Introduction

Lymphotoxin alpha, a member of the tumor necrosis factor family, is a cytokine produced by lymphocytes. LTA is highly inducible, secreted, and exists as homotrimeric molecule. LTA forms heterotrimers with lymphotoxin-beta which anchors lymphotoxin-alpha to the cell surface. LTA mediates a large variety of inflammatory, immunostimulatory, and antiviral responses. LTA is also involved in the formation of secondary lymphoid organs during development and plays a role in apoptosis.

Biological Activity

Measured in a cytotoxicity assay using L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is 6.1 ng/ml.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

Tumor Necrosis Factor-beta Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 180 amino acids (35-205a.a.) and having a molecular mass of 19.7kDa (Molecular size on SDS-PAGE will appear at approximately 18-28kDa).TNFB is fused with a 6 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques.

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