

TNF beta Protein, Human, Recombinant (His)

General Information

Synonyms:	LTA;Tumor necrosis factor ligand superfamily member 1;Lymphotoxin-alpha;LT-alpha;TNFSF1;TNF-beta;TNFB
Protein Construction:	35-205 aa
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P01374
Molecular Weight:	20.8 kDa (predicted)
AA Sequence:	LPGVGLTPSAAQTARQHPKMHLAHLSTLKPAAHLIGDPSKQNSLLWRANTDRAFLQDGFSLSNNSLLVPTSGI YFVYSQVVFSGKAYSPKATSSPLYLAHEVQLFSSQYPFHVPLLSSQKMOVYPGLQEPWLHSMYHGAAAFQLTQG DQLSTHTDGIPHLVLSPSTVFFGAFAL

QC Testing

Biological Activity:	1. Measured by its binding ability in a functional ELISA. Immobilized LTA at 5 µg/mL can bind human TNFRSF1B, the EC 50 is 1.632-2.699 ng/mL. 2. Measured by its binding ability in a functional ELISA. Immobilized LTA at 5 µg/mL can bind human TNFR1, the EC 50 of human LTA protein is 4.409-6.797 ng/mL.
Purity:	> 95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Cytokine that in its homotrimeric form binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFR1 and TNFRSF14/HVEM. In its heterotrimeric form with LTB binds to TNFRSF3/LTBR. Lymphotoxin is produced by lymphocytes and is cytotoxic for a wide range of tumor cells in vitro and in vivo.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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