

## Lymphotoxin Beta Protein, Cynomolgus, Recombinant (His)

### General Information

Synonyms:	Lymphotoxin $\beta$ ;lymphotoxin $\beta$ (TNF superfamily, member 3);lymphotoxin beta (TNF superfamily, member 3)
Protein Construction:	A DNA sequence encoding the cynomolgus LTB (XP_003897389.1) (Gln49-Gly244) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Cynomolgus
Expression Host:	Baculovirus Insect Cells
Accession:	XP_003897389.1
Molecular Weight:	22.8 kDa (predicted)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing 20 mM Tris, 500 mM NaCl, 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.

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

LTB (Lymphotoxin Beta) is a Protein Coding gene. 2 alternatively spliced human isoforms have been reported. Lymphotoxin beta is a type II membrane protein of the TNF family. It anchors lymphotoxin-alpha to the cell surface through heterotrimer formation. Heat-labile enterotoxin B subunit (LTB) of enterotoxigenic Escherichia coli (ETEC) is both a strong mucosal adjuvant and immunogen. It is a subunit vaccine candidate to be used against ETEC-

induced diarrhea. It has already been expressed in several bacterial and plant systems. LTB provokes a systemic immune response and exerts adjuvant effects on mucosal immune responses to unrelated antigens. Diseases associated with LTB include Synovitis and Myasthenic Syndrome, Congenital, 2C, Associated With Acetylcholine Receptor Deficiency.

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