Human Lymphotoxin alpha1/beta2 Protein, Fc Tag (MALS verified)

Catalog # LY2-H5263

Source

Human Lymphotoxin alpha1/beta2 Protein, Fc Tag(LY2-H5263) is expressed from human 293 cells (HEK293). It contains AA Lys 62 - Leu 205 (alpha1) & Asp 82 - Gly 244 (beta2) (Accession # P01374 (alpha1) & Q06643 (beta2)). Predicted N-terminus: Pro

Molecular Characterization

This protein carries a human IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 78.3 kDa. The protein migrates as 65-95 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

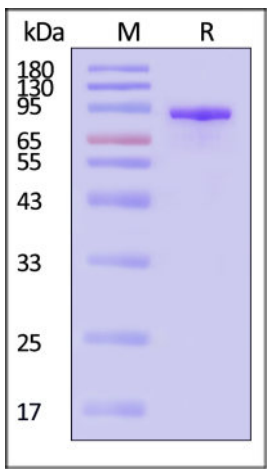
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

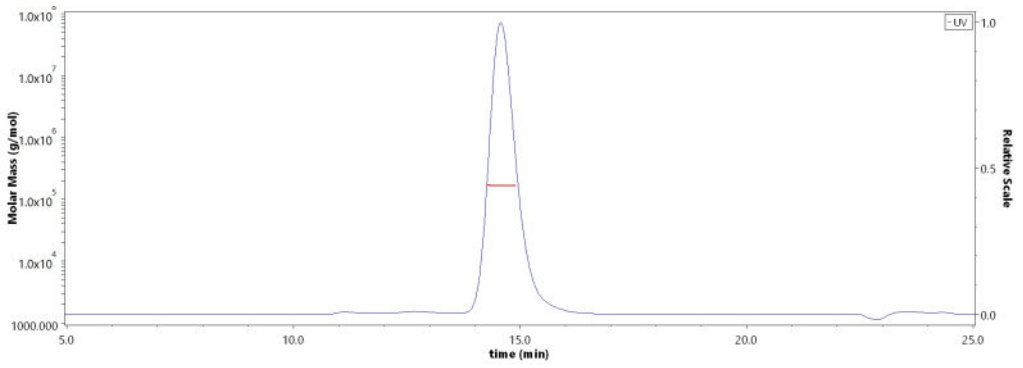
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



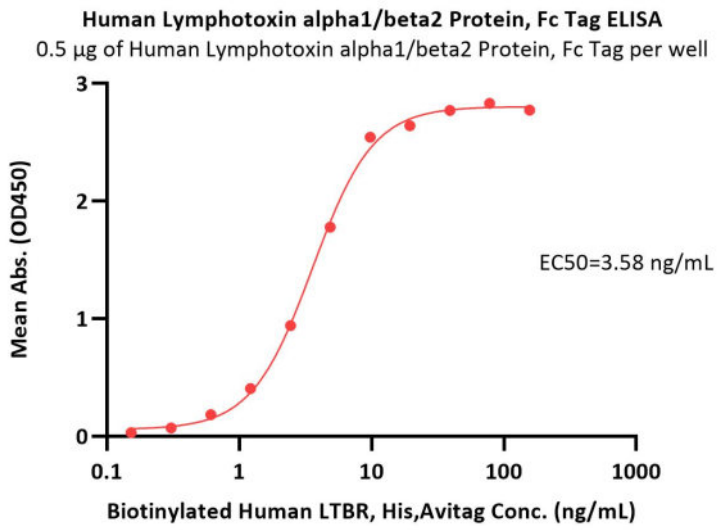
Human Lymphotoxin alpha1/beta2 Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Human Lymphotoxin alpha1/beta2 Protein, Fc Tag (Cat. No. LY2-H5263) is more than 90% and the molecular weight of this protein is around 150-190 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Human Lymphotoxin alpha1/beta2 Protein, Fc Tag (Cat. No. LY2-H5263) at 5 μg/mL (100 μL/well) can bind Biotinylated Human LTBR, His,Avitag (Cat. No. LTR-H82E9) with a linear range of 0.1-10 ng/mL (QC tested).

Background

Lymphotoxin alpha1/bate2 (LT α1/β1) are members of the tumor necrosis factor (TNF) superfamily, and plays a pivotal role in the establishment and regulation of the immune system. The predominant form on the lymphocyte surface is the lymphotoxin alpha 1/beta 2 complex (e.g. 1 molecule alpha/2 molecules beta) and this complex is the primary ligand for the lymphotoxin beta receptor (LTβR). The minor complex is lymphotoxin alpha 2/beta 1. Lymphotoxin alpha mediates a large variety of inflammatory, immunostimulatory, and antiviral responses, is involved in the formation of secondary lymphoid organs during development and plays a role in apoptosis. Genetic variations in this gene are associated with susceptibility to leprosy type 4, myocardial infarction, non-Hodgkin's lymphoma, and psoriatic arthritis. Lymphotoxin beta is an inducer of the inflammatory response system and involved in normal development of lymphoid tissue.

Clinical and Translational Updates