

**Synonym**

LTBR, D12S370, TNFCR, TNFR3, TNFRSF3, TNFRIII

**Source**

Human LTBR, Fc Tag (LTR-H5259) is expressed from human 293 cells (HEK293). It contains AA Gln 31 - Met 227 (Accession # [P36941-1](#)).

Predicted N-terminus: Gln 31

**Molecular Characterization**

LTBR(Gln 31 - Met 227) P36941-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 48.8 kDa. The protein migrates as 50-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

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.*

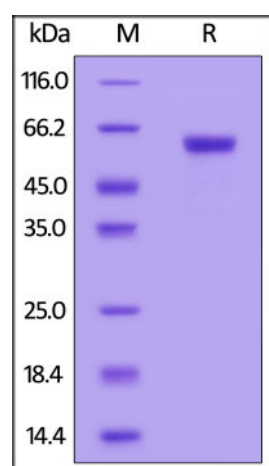
**Storage**

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

*Please avoid repeated freeze-thaw cycles.*

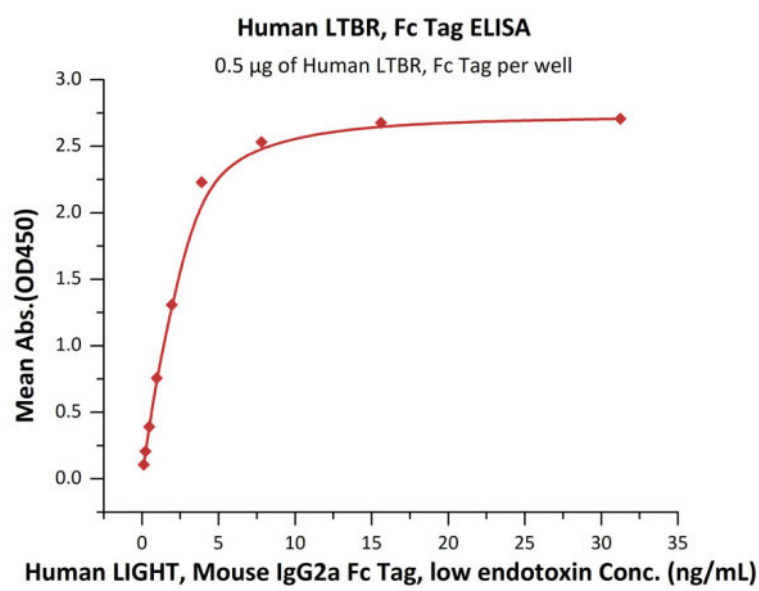
This product is stable after storage at:

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

**SDS-PAGE**

Human LTBR, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**



Immobilized Human LTBR, Fc Tag (Cat. No. LTR-H5259) at 5 µg/mL (100 µL/well) can bind Human LIGHT, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. [LIT-H5256](#)) with a linear range of 0.1-4 ng/mL (QC tested).

### Background

Lymphotoxin-beta receptor (LTBR) is also known as Tumor necrosis factor receptor superfamily member 3 (TNFRSF3), Tumor necrosis factor receptor type III (TNF-RIII), which is a single-pass type I membrane protein containing four TNFR-Cys repeat regions. Except for interacting with HCV core protein, LTBR can not only associate with itself, but also can associate with TRAF3, TRAF4 and TRAF5. As the receptor for the heterotrimeric lymphotoxin containing LTA and LTB, and for TNFS14/LIGHT, LTBR promotes apoptosis via TRAF3 and TRAF5. Furthermore, LTBR may play a role in the development of lymphoid organs.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.