

Mouse LTBR / TNFRSF3 Protein, His Tag (MALS verified)

Catalog # LTR-M52H3



BIOSYSTEMS
Acro

Synonym

LTBR, D12S370, TNFCR, TNFR3, TNFRSF3, TNFRIII

Source

Mouse LTBR Protein, His Tag (LTR-M52H3) is expressed from human 293 cells (HEK293). It contains AA Gln 31 - Leu 223 (Accession # [P50284](#)).

Predicted N-terminus: Gln 31

Molecular Characterization

LTBR(Gln 31 - Leu 223) P50284	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 23.6 kDa. The protein migrates as 28-38 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 / rFC 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.

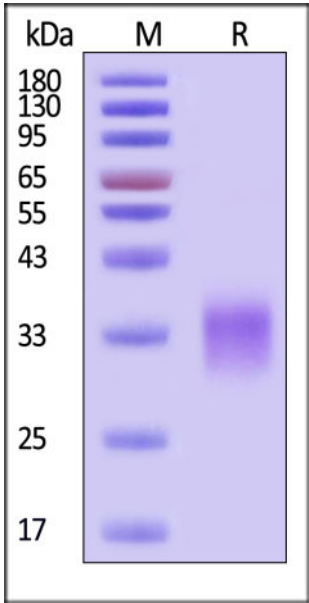
This product is stable after storage at:

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

ACRO Quality Management System

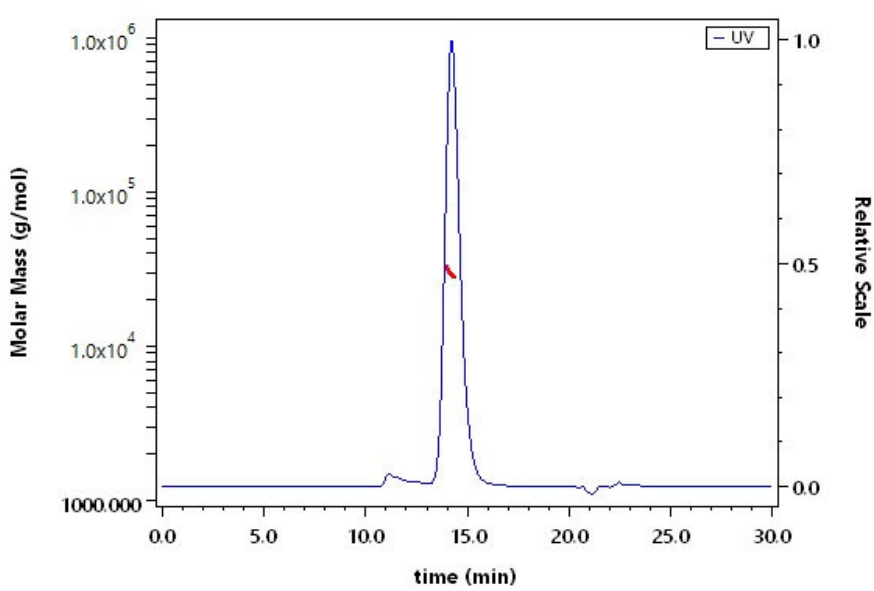
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



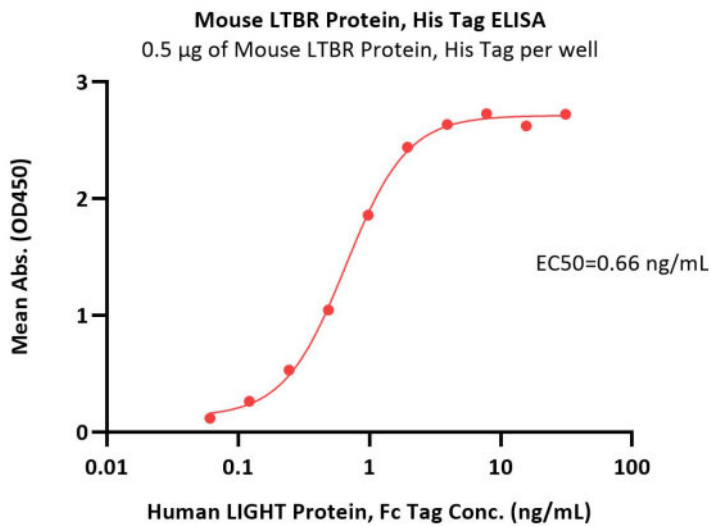
Mouse LTBR Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



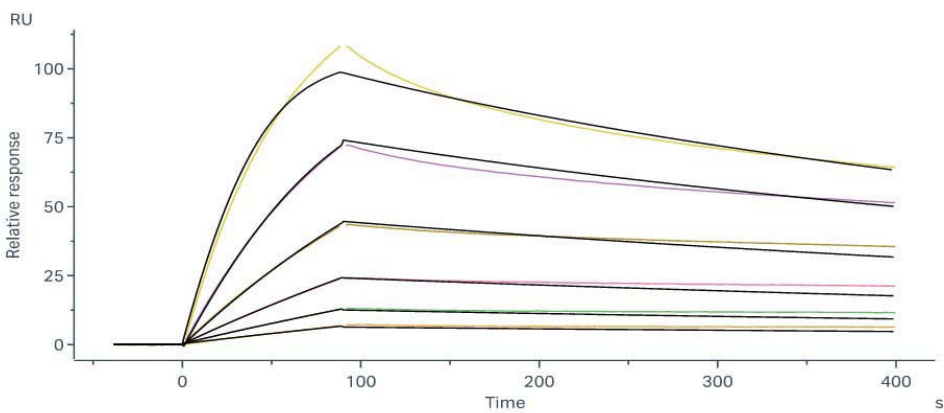
The purity of Mouse LTBR Protein, His Tag (Cat. No. LTR-M52H3) is more than 90% and the molecular weight of this protein is around 23-35 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Mouse LTBR Protein, His Tag (Cat. No. LTR-M52H3) at 5 µg/mL (100 µL/well) can bind Human LIGHT Protein, Fc Tag (Cat. No. LIT-H5269) with a linear range of 0.06-2 ng/mL (QC tested).

Bioactivity-SPR



Mouse LTBR Protein, His Tag (Cat. No. LTR-M52H3) immobilized on CM5 Chip can bind Human LIGHT Protein, Fc Tag (Cat. No. LIT-H5269) with an affinity constant of 0.255 nM as determined in a SPR assay (Biacore 8K) (Routinely 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.



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