

**Synonym**

CD258 antigen,CD258,HVEM-L,LIGHT,LTg,TNFSF14,TR2,HVEML

**Source**

Human LIGHT Protein, Mouse IgG2a Fc Tag(LIT-H5256) is expressed from human 293 cells (HEK293). It contains AA Asp 74 - Val 240 (Accession # [O43557-1](#) ).

Predicted N-terminus: Glu

**Molecular Characterization**

mFc(Glu 98 - Lys 330) P01863	LIGHT(Asp 74 - Val 240) O43557-1
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This protein carries a mouse IgG2a Fc tag at the N-terminus

The protein has a calculated MW of 45.1 kDa. The protein migrates as 50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 0.1 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 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.*

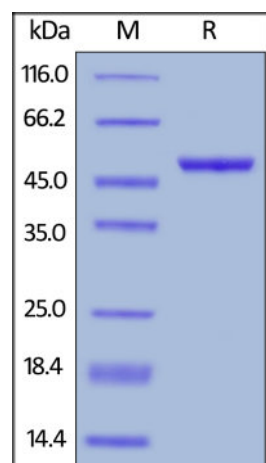
**Storage**

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

*Please avoid repeated freeze-thaw cycles.*

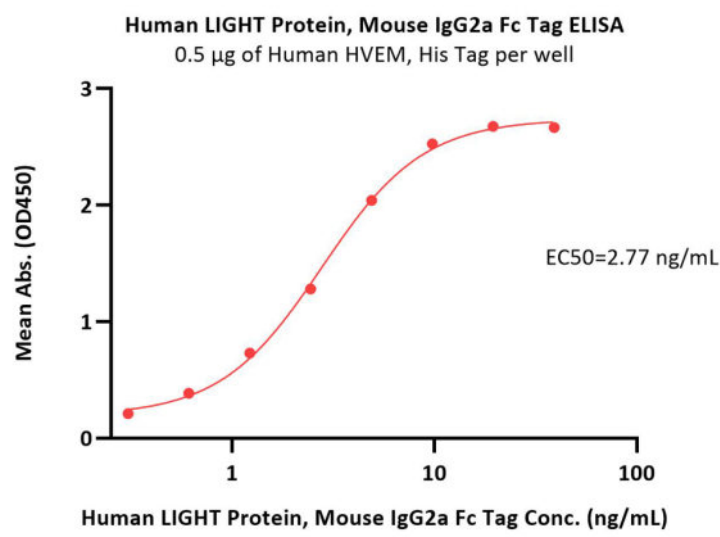
This product is stable after storage at:

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

**SDS-PAGE**

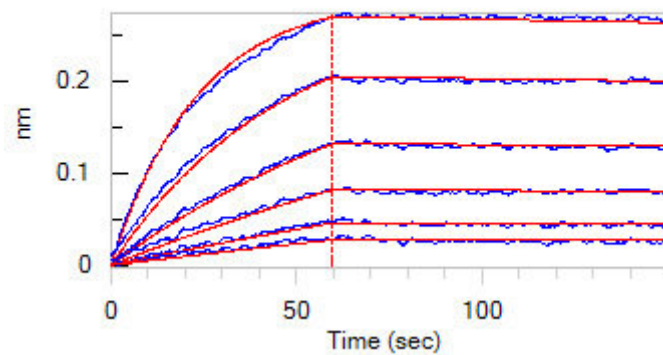
Human LIGHT Protein, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**



Immobilized Human HVEM, His Tag (Cat. No. HVM-H52E9) at 5 µg/mL (100 µL/well) can bind Human LIGHT Protein, Mouse IgG2a Fc Tag (Cat. No. LIT-H5256) with a linear range of 0.3-5 ng/mL (QC tested).

### Bioactivity-BLI



Loaded Human DcR3, Fc Tag (Cat. No. TNB-H5255) on AHC Biosensor, can bind Human LIGHT Protein, Mouse IgG2a Fc Tag (Cat. No. LIT-H5256) with an affinity constant of 1.64 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

### Background

Tumor necrosis factor ligand superfamily member 14(LIGHT) is a tumor necrosis factor (TNF) superfamily ligand that regulates T cell immune responses by signaling through the herpes virus entry mediator (HVEM) and the lymphotoxin beta receptor (LTbetaR). LIGHT has emerged as a potent initiator of T cell co-stimulation signals effecting CTL-mediated tumor rejection, allograft rejection and graft versus host disease. Constitutive expression of LIGHT leads to tissue destruction and autoimmune-like disease syndromes.

### Clinical and Translational Updates

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