

Synonym

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

Source

Human LIGHT Protein, Fc Tag (LIT-H5269) is expressed from human 293 cells (HEK293). It contains AA Asp 74 - Val 240 (Accession # [O43557-1](#)) trimer Design.  
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 82.6 kDa. The protein migrates as 116 kDa under non-reducing (NR) 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 50 mM Tris, 100 mM Glycine, 150 mM NaCl, pH7.5 with trehalose as protectant.  
Contact us for customized product form or formulation.

Reconstitution

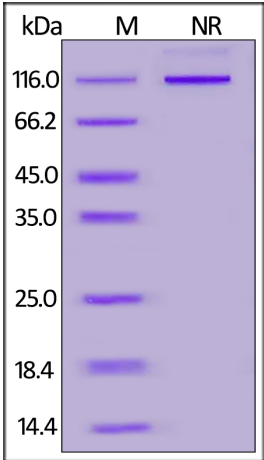
Please see Certificate of Analysis for specific instructions.  
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

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.

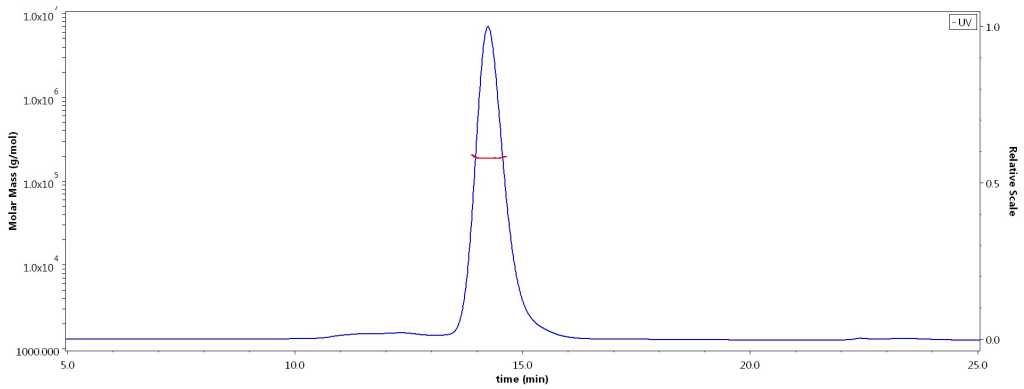
SDS-PAGE



Human LIGHT Protein, Fc Tag on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

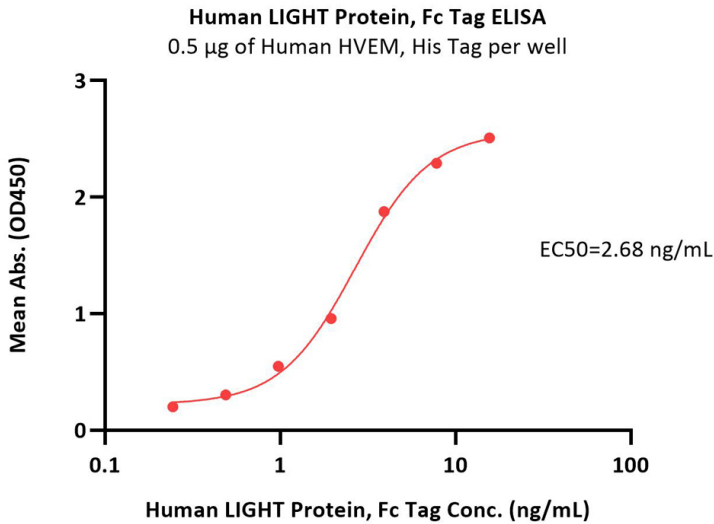
Bioactivity-ELISA

SEC-MALS



The purity of Human LIGHT Protein, Fc Tag (Cat. No. LIT-H5269) is more than 90% and the molecular weight of this protein is around 180-200 kDa verified by SEC-MALS.  
[Report](#)

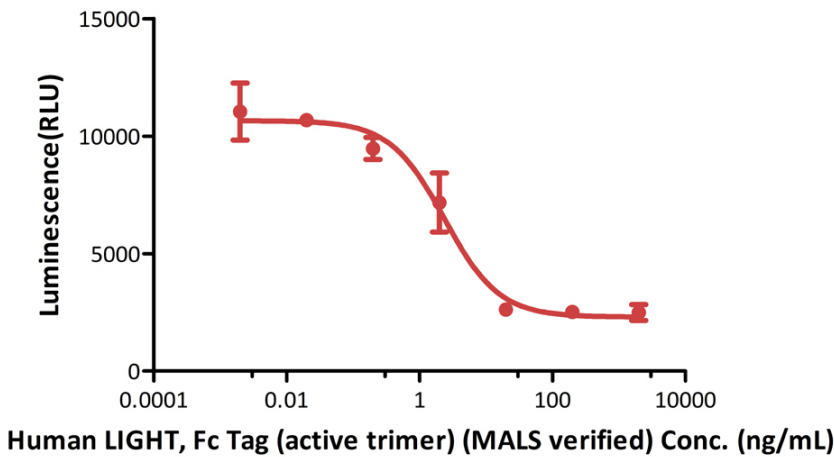




Immobilized Human HVEM, His Tag (Cat. No. HVM-H52E9) at 5 µg/mL (100 µL/well) can bind Human LIGHT Protein, Fc Tag (Cat. No. LIT-H5269) with a linear range of 0.2-4 ng/mL (QC tested).

Bioactivity-CELL BASE

**Human LIGHT, Fc Tag (active trimer) (MALS verified) induced cytotoxicity in HT-29 cells**



Human LIGHT Protein, Fc Tag (Cat. No. LIT-H5269) induced cytotoxicity in HT-29 cells. The ED50 for this effect is 1.29-2.38 ng/mL (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.

