

Synonym

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

Source

Human LIGHT, Fc tag (LIT-H5265) is expressed from human 293 cells (HEK293). It contains AA Asp 74 - Val 240 (Accession # O43557-1).

Predicted N-terminus: Pro

Molecular Characterization

Fc(Pro 100 - Lys 330) P01857	LIGHT(Asp 74 - Val 240) O43557-1
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This protein carries a human IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 44.7 kDa. The protein migrates as 50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>85% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and 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.

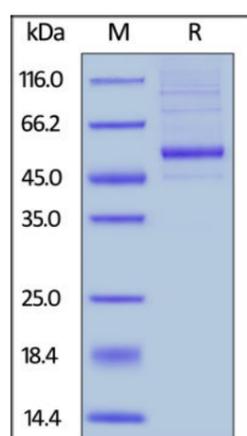
Storage

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

Please avoid repeated freeze-thaw cycles.

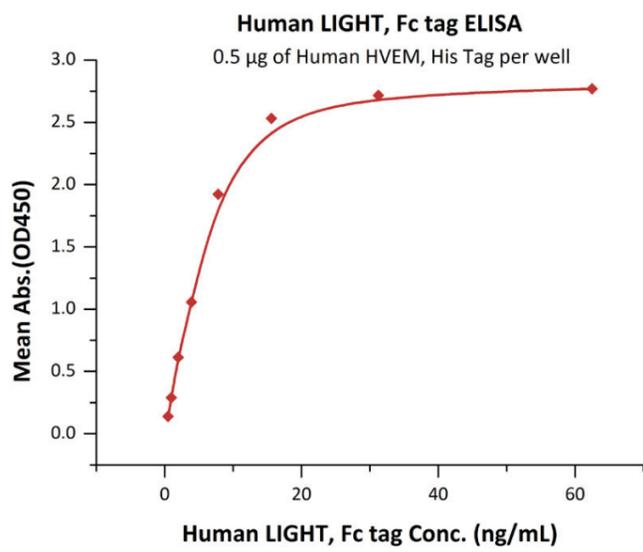
This product is stable after storage at:

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

SDS-PAGE

Human LIGHT, 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 85%.

Bioactivity-ELISA



Immobilized Human HVEM, His Tag (Cat. No. [HVM-H52E9](#)) at 5 µg/mL (100 µL/well) can bind Human LIGHT, Fc tag (Cat. No. [LIT-H5265](#)) with a linear range of 0.5-8 ng/mL (QC 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.

References

- (1) [Mauri DN., et al. 1998, Immunity., 8\(1\), 21-30.](#)
- (2) [Granger SW., et al. 2003, Cytokine Growth Factor Rev., 14\(3-4\), 289-96.](#)
- (3) [Pasero C., et al. 2009, Curr Mol Med., 9\(7\), 911-27.](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.