

## Recombinant Human TNFSF14 protein, Fc-tagged

**Cat. No.** TNFSF14-552H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Human TNFSF14 (Asp74-Val240) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>        | Asp74-Val240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>          | 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. |
| <b>Predicted N Terminal</b> | Asp74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>                 | Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>       | 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.                                                                                                                                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>         | >85% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>        | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                                                                                                                   |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TNFSF14                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b> | TNFSF14                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | TNFSF14; tumor necrosis factor (ligand) superfamily, member 14; tumor necrosis factor ligand superfamily member 14; CD258; HVEM L; LIGHT; LTg; delta transmembrane LIGHT; herpesvirus entry mediator A; herpesvirus entry mediator ligand; herpesvirus entry mediator-ligand; herpes virus entry mediator ligand; ligand for herpesvirus entry mediator; tumor necrosis factor receptor-like 2; tumor necrosis factor superfamily member LIGHT; TR2; HVEM L |
| <b>Gene ID</b>         | 8740                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>     | NM_003807                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

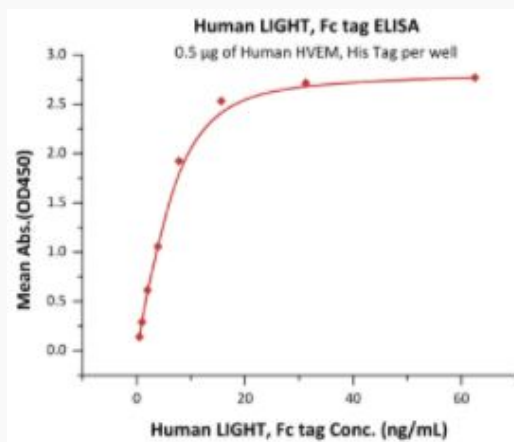
 45-1 Ramsey Road, Shirley, NY 11967, USA

**Protein Refseq** NP\_003798

**MIM** 604520

**UniProt ID** O43557

**Bioactivity-ELISA of  
TNFSF14-552H**



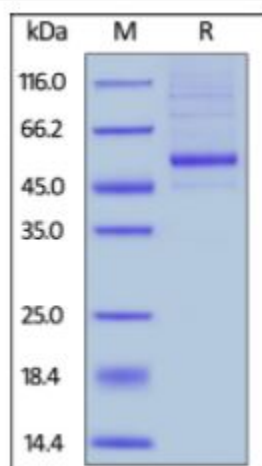
Immobilized Human HVEM, His Tag at 5 µg/mL (100 µL/well) can bind Human LIGHT, Fc tag with a linear range of 0.5-8 ng/mL (QC tested).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**SDS-PAGE of  
TNFSF14-552H**



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%.