

## Active Recombinant Human TNFSF14 Protein (Arg64-Val240), C-His tagged, Animal-free, Carrier-free

**Cat. No.** TNFSF14-303H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human TNFSF14 Protein (Arg64-Val240) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | Arg64-Val240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | LIGHT, also known as TNFSF14 is a member of the TNF superfamily that produced by multiple immune cells such as activated T cells and immature dendritic cells (DCs). LIGHT is a 29 kDa type II transmembrane protein, which serves as a ligand for both lymphotoxin $\beta$ receptor (LT $\beta$ R) and TNFSF signaling receptors (TNFRSF14/HVEM). Besides, LIGHT can amplify NF-kB signaling pathway in T cells when presenting anti-CD3 antibody treatment. Additionally, LIGHT can stimulate T cell proliferation and IFN-expression via interacting with TNFRSF13 /HVEM. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Bio-activity</b>     | Measure by its ability to induce cytotoxicity in HT-29 cells in the presence of IFN-gamma. The ED50 for this effect is < 10 ng/mL.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 20.30 kDa.<br>The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 0.1 EU/μg of the protein by the LAL method.                                                                                                                                                                                                                    |
| <b>Purity</b>         | >98% as determined by SDS-PAGE analysis.                                                                                                                                                                                                                         |
| <b>Storage</b>        | <p>This product is stable after storage at:</p> <p>-20 centigrade for 12 months in lyophilized state from date of receipt.</p> <p>-20 or -80 centigrade for 2 weeks under sterile conditions after reconstitution.</p> <p>Avoid repeated freeze/thaw cycles.</p> |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 μm filtered solution of PBS containing 0.1% sarkosyl, pH 8.0.                                                                                                                                                                             |
| <b>Reconstitution</b> | It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.                                          |
| <b>Shipping</b>       | The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TNFSF14 tumor necrosis factor (ligand) superfamily, member 14 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                       |
| <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; |

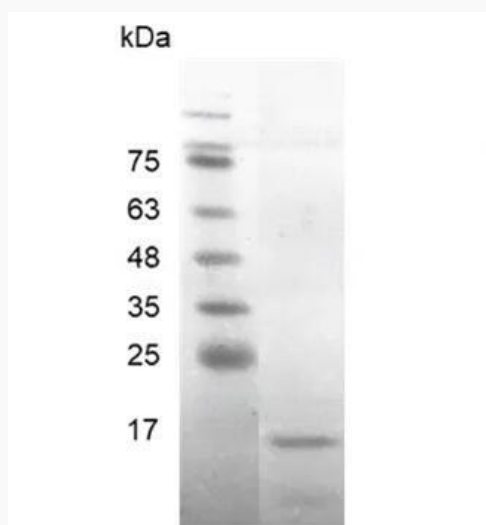
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|----------------|-----------|
| Gene ID        | 8740      |
| mRNA Refseq    | NM_003807 |
| Protein Refseq | NP_003798 |
| MIM            | 604520    |
| UniProt ID     | O43557    |

**SDS-PAGE analysis  
of recombinant  
human LIGHT.**



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