

For Research Use Only

Recombinant Human LIGHT/TNFSF14 protein (His Tag)



Catalog Number: Eg32095

Basic Information

ED50:
0.1-0.4 ng/mL

GenelD:
8740

Species:
Human

Accession:
O43557

Purity:
>95 %, SDS-PAGE

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human LIGHT protein Asp74-Val240 (Accession# O43557) with a His tag at the N-terminus.

Predicted Molecular Mass:
19 kDa

SDS-PAGE:
20-22 kDa, reducing (R) conditions

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human HVEM (Myc tag, His tag) at 2 μ g/mL (100 μ L/well) can bind Human LIGHT (His tag) with a linear range of 0.1-0.4 ng/mL.

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Tumor necrosis factor superfamily member 14 (TNFSF14), LIGHT, is a component of the cytokine network that regulates innate and adaptive immune responses, which promote homeostasis of lymphoid organs, liver, and bone. TNFSF14 is an immunomodulatory cytokine and a member of the TNF superfamily. It is expressed by lymphocytes, monocytes, and granulocytes, and is primarily known for its critical role in immune functions. TNFSF14 leads to T cell activation through interaction with HVEM by enhancing T cell proliferation and induces cytokine secretion through binding to lymphotoxin β receptor (LT β R) on mast cells. TNFSF14 has also been implicated in various pathogenic conditions related to inflammatory responses such as tumors, type 2 diabetes, and atherosclerosis.

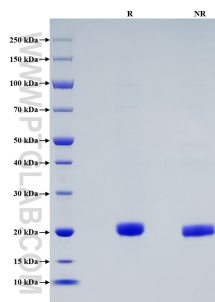
References

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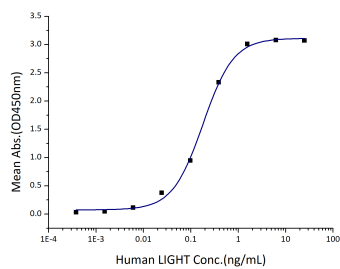
Synonyms

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

Selected Validation Data



Purity of Recombinant Human LIGHT was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Human HVEM (Myc tag, His tag) at $2 \mu\text{g/mL}$ ($100 \mu\text{L/well}$) can bind Human LIGHT (His tag) with a linear range of 0.1-0.4 ng/mL.

For technical support and original validation data for this product please contact

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