

37-1013: Human TNFSF14 / LIGHT / CD258 Recombinant Protein (ECD, Fc Tag)(Discontinued)

Reactivity : Human

Alternative Name : CD258 Protein, HVEM Protein, LIGHT Protein, LTg Protein, TR2 Protein,

Description

Source : HEK293 Cells

LIGHT, also known as TNFSF14 or CD258, is a newly identified member of the TNF superfamily (TNFSF14) that is expressed by activated T lymphocytes, monocytes, granulocytes, spleen cells, and immature dendritic cells. TNFSF14 / LIGHT / CD258 is a type II transmembrane protein that is known to bind 2 membrane-bound TNFSF signaling receptors: HVEM, which is predominantly expressed by T cells, and lymphotoxin beta receptor (LTbetaR), which is expressed by stromal cells and nonlymphoid hematopoietic cells. TNFSF14 / LIGHT / CD258 also binds to a soluble nonsignaling receptor, decoy receptor 3 (DcR3), which can modulate the function of LIGHT in vivo. TNFSF14 / LIGHT / CD258 can also costimulate T cell responses via HVEM, which is constitutively expressed in most lymphocyte subpopulations, including CD4+ and CD8+ T cells. In addition, TNFSF14 / LIGHT / CD258 has been shown to suppress tumor formation in vivo and to induce tumor cell apoptosis via the up-regulation of intercellular adhesion molecule 1 and an increased lymphocyte adhesion to cancer cells. Thus, TNFSF14 / LIGHT / CD258 is being actively investigated as a possible basis for cancer treatment. Cancer Immunotherapy Co-stimulatory Immune Checkpoint Targets Immune Checkpoint Immune Checkpoint Proteins Immune Checkpoint Targets Immunotherapy Targeted Therapy

Product Info

Amount : Human TNFSF14 / LIGHT / CD258 Recombinant Protein (ECD, Fc Tag)(Discontinued) / 100 µg
Purification : > 90 % as determined by SDS-PAGE.
Content : Formulation Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Storage condition : Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Amino Acid : Asp74-Val240

Application Note

Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is 1-4 ng/mL.

Endotoxin :< 1.0 EU per µg protein as determined by the LAL method.

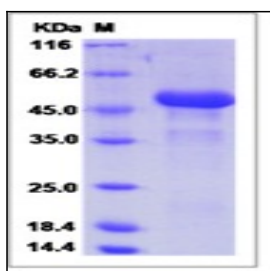


Fig 1: Human TNFSF14 / LIGHT / CD258 Recombinant Protein (ECD, Fc Tag)

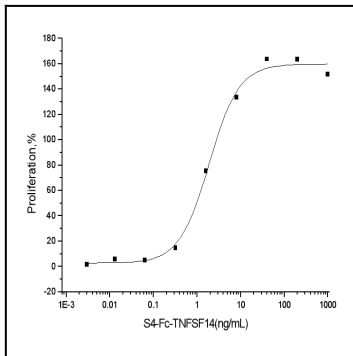


Fig 2: Human TNFSF14 / LIGHT / CD258 Recombinant Protein (ECD, Fc Tag) measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC).