

LIGHT/TNFSF14 recombinant protein

LIGHT/TNFSF14 Protein, Mouse, Recombinant (hFc Tag), HPLC-verified

CATALOG #
AAA259258

HOST
Baculovirus-Insect Cells

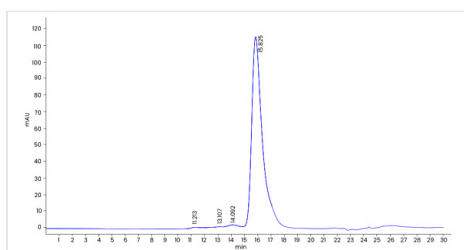
PRODUCT SYNONYMS

LIGHT/TNFSF14; LIGHT/TNFSF14 Protein; Mouse; Recombinant (hFc Tag); HPLC-verified; tumor necrosis factor (ligand) superfamily; member 14; HVEM-L Protein; HVEM-L Protein; LIGHT Protein; LTg Protein; Ly113 Protein; LIGHT/TNFSF14 recombinant protein

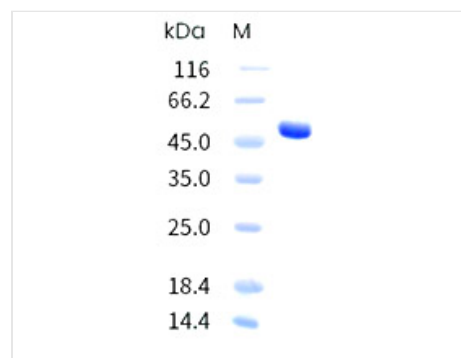
PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>= 95% as determined by SDS-PAGE. = 90% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile 20mM PB, 150mM NaCl, 10% glycerol, pH 7.0. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	Mouse
Predicted N Terminal	Asp 72
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Mouse TNFSF14 (NP_062291.1)(Asp72-Val239) was expressed with the Fc region of human IgG1 at the C-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for LIGHT/TNFSF14 recombinant protein	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 non-signaling 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.
References	Ogawa T, et al. (2010) CXCR3 binding chemokine and TNFSF14 over expression in bladder urothelium of patients with ulcerative interstitial cystitis. J Urol. 183(3): 1206-12.Kanodia S, et al. (2010) Expression of LIGHT/TNFSF14 combined with vaccination against human papillomavirus Type 16 E7 induces significant tumor regression. Cancer Res. 70(10): 3955-64.Hosokawa Y, et al. (2010) TNFSF14 coordinately enhances CXCL10 and CXCL11 productions from IFN-gamma-stimulated human gingival fibroblasts. Mol Immunol. 47(4): 666-70.

NCBI AND UNIPROT INFORMATION

NCBI GI #	9507195
NCBI GeneID	50930
NCBI Accession #	NP_062291.1
NCBI GenBank Nucleotide #	NM_019418.3
UniProt Accession #	Q9QYH9; Q059Y9
Molecular Weight	26,338 Da
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 14
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 14
NCBI Official Symbol	Tnfsf14
NCBI Official Synonym Symbols	LTg; HVEML; LIGHT; Ly113; HVEM-L
NCBI Protein Information	tumor necrosis factor ligand superfamily member 14
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 14
UniProt Gene Name	Tnfsf14
UniProt Synonym Gene Names	Light
UniProt Entry Name	TNF14_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tnfsf14-recombinant-protein-baculovirus-insect-cells/259258>