

LIGHT/TNFSF14 recombinant protein

LIGHT/TNFSF14 Protein, Human, Recombinant (His Tag), HPLC-verified

CATALOG #
AAA259176

HOST
HEK293 Cells

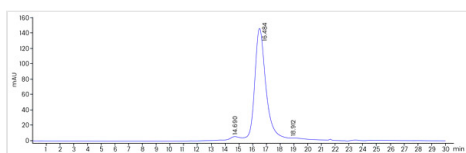
PRODUCT SYNONYMS

LIGHT/TNFSF14; LIGHT/TNFSF14 Protein; Human; Recombinant (His Tag); HPLC-verified; tumor necrosis factor (ligand) superfamily; member 14; CD258 Protein; HVEM Protein; LIGHT Protein; LTg Protein; TR2 Protein; LIGHT/TNFSF14 recombinant protein

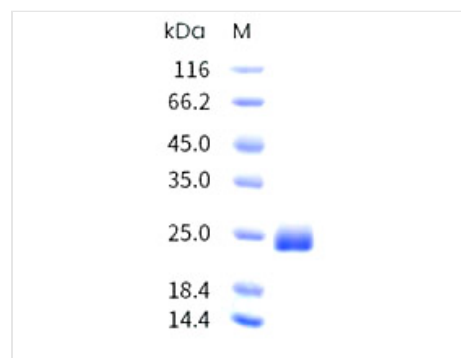
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>= 90% as determined by SDS-PAGE. = 90% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	Human
Predicted N Terminal	His
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Human TNFSF14 (NP_003798.2)(Asp74-Val240) was expressed, with a polyhistidine tag at the N-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 #	25952144
NCBI GeneID	8740
NCBI Accession #	NP_003798.2
NCBI GenBank Nucleotide #	NM_003807.3
UniProt Accession #	O43557 ; O75476 ; Q6FHA1 ; Q8WVF8 ; Q96LD2 ; A8K7M2 ; C9J5H4
Molecular Weight	26,350 Da
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 14 isoform 1
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 14
NCBI Official Symbol	TNFSF14
NCBI Official Synonym Symbols	LTg; TR2; CD258; HVEM; LIGHT
NCBI Protein Information	tumor necrosis factor ligand superfamily member 14; 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; t
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 14
UniProt Gene Name	TNFSF14
UniProt Synonym Gene Names	HVEM; LIGHT; HVEM-L
UniProt Entry Name	TNF14_HUMAN

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://www.aaabiotech.com/tnfsf14-recombinant-protein-hek293/259176>