Active Recombinant Mouse Tnfsf14 Protein (Arg58-Val239), C-His tagged, Animal-free, Carrier-free

Cat. No. Tnfsf14-243M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tnfsf14 Protein (Arg58-Val239) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Arg58-Val239
Description	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). Mouse LIGHT shares 79% sequence homology with human LIGHT. LIGHT is a 29 kDa type II transmembrane protein, which serves as a ligand for both lymphotoxin β receptor (LTβR) and TNFSF signaling receptors (TNFRSF14/HVEM). Besides, LIGHT can amplify NF-kB signaling pathway in T cells when presencing anti-CD3 antibody treatment. Additionally, LIGHT is able to stimulate T cell proliferation and IFN expression via interacting with TNFRS13 /HVEM.
Form	Lyophilized
Bio-activity	Measure by its ability to induce cytotoxicity in HT-29 cells. The ED50 for this effect is < 2 μg/mL.
Molecular Mass	The protein has a calculated MW of 20.92 kDa.

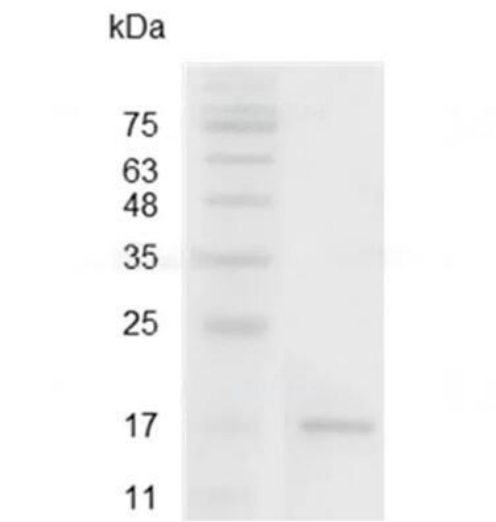
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	The protein migrates about 17 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	Tnfsf14 tumor necrosis factor (ligand) superfamily, member 14 [Mus musculus (house mouse)]
Official Symbol	Tnfsf14
Synonyms	TNFSF14; tumor necrosis factor (ligand) superfamily, member 14; tumor necrosis factor ligand superfamily member 14; LTg; HVEML; LIGHT; Ly113; HVEM-L;
Gene ID	50930

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mRNA Refseq	NM_019418
Protein Refseq	NP_062291
UniProt ID	Q9QYH9
SDS-PAGE analysis of recombinant mouse LIGHT.	

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