

Human LIGHT/TNFSF14 Protein

Cat. No. LGT-HM231

Description

Source	Recombinant Human LIGHT/TNFSF14 Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Asp74-Val240.
Accession	O43557-1
Molecular Weight	The protein has a predicted MW of 45.5 kDa. Due to glycosylation, the protein migrates to 53-60 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per ug by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

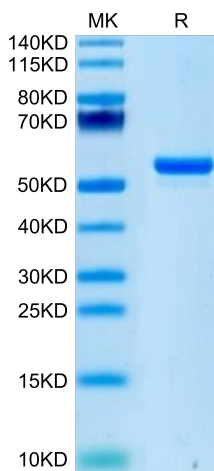
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

LIGHT, also known as tumor necrosis factor superfamily member 14 (TNFSF14), is a secreted protein of the TNF superfamily. It is recognized by herpesvirus entry mediator (HVEM), as well as decoy receptor 3. This protein has been shown to stimulate the proliferation of T cells, and trigger apoptosis of various tumor cells.

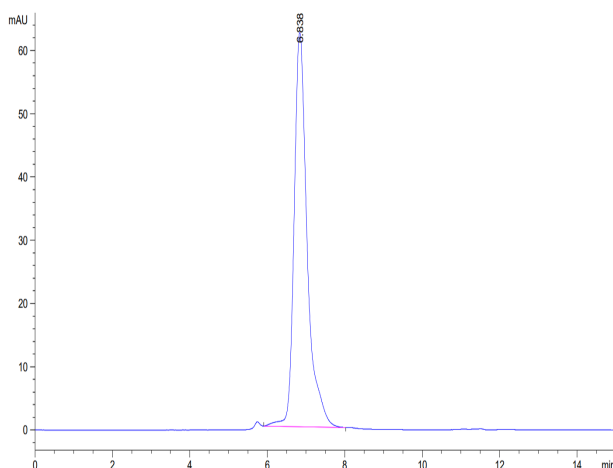
Assay Data

Tris-Bis PAGE



Human LIGHT on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



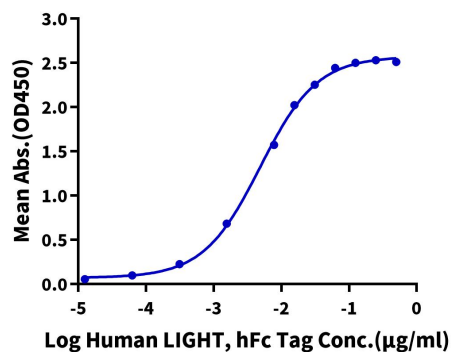
The purity of Human LIGHT is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human LIGHT, hFc Tag ELISA

0.1µg Human HVEM, His Tag Per Well



Immobilized Human HVEM, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human LIGHT, hFc Tag with the EC50 of 4.9ng/ml determined by ELISA.