

Human LIGHT/TNFSF14 Protein

Cat. No. LGT-HM131

Description

Source	Recombinant Human LIGHT/TNFSF14 Protein is expressed from HEK293 with His tag at the N-Terminus It contains Asp74-Val240.
Accession	O43557-1
Molecular Weight	The protein has a predicted MW of 19 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE

Formulation and Storage

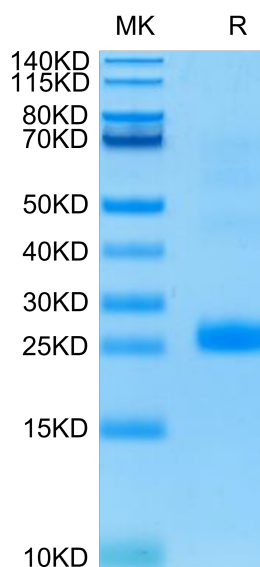
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months 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

Bis-Tris PAGE



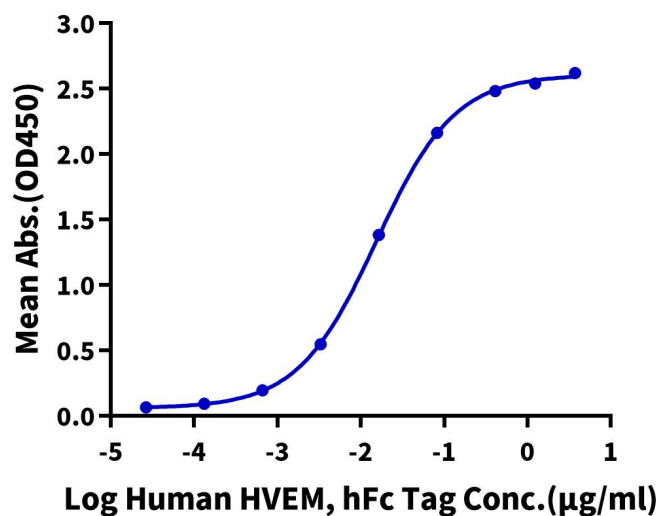
Human LIGHT on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Assay Data

Human LIGHT, His Tag ELISA

0.2 µg Human LIGHT, His Tag Per Well

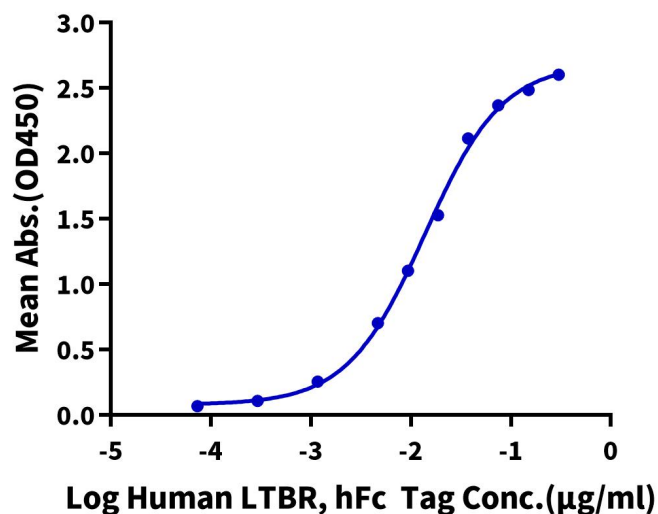


Immobilized Human LIGHT, His Tag at 2 µg/ml (100 µl/Well) on the plate. Dose response curve for Human HVEM, hFc Tag with the EC50 of 15.3 ng/ml determined by ELISA (QC Test).

ELISA Data

Human LIGHT, His Tag ELISA

0.1 µg Human LIGHT, His Tag Per Well



Immobilized Human LIGHT, His Tag at 1 µg/ml (100 µl/Well) on the plate. Dose response curve for Human LTBR, hFc Tag with the EC50 13.8 ng/ml determined by ELISA.