

LIGHT/TNFSF14 Trimer Protein, Human, Recombinant (His & Flag)

General Information

Synonyms:	TNFSF14; TR2; CD258; LTg; LIGHT; HVEM-L
Protein Construction:	Ser89-Val240 Trimer
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O43557-1
Molecular Weight:	52.4 kDa (predicted). Due to glycosylation, the protein migrates to 53-140 kDa under Non reducing (N) condition based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human LIGHT Trimer, His tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human HVEM, hFc Tag with the EC50 of 37.5 ng/ml determined by ELISA.
Purity:	> 90% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Reference

Granger S W, Rickert S. LIGHT-HVEM signaling and the regulation of T cell-mediated immunity[J]. Cytokine Growth Factor Rev, 2003, 14(3):289-296.

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