

## HVEM Protein, Human, Recombinant (Insect, hFc)

### General Information

Synonyms:	TR2;TNFRSF14
Protein Construction:	Leu39-Lys184
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q92956
Molecular Weight:	~45 kDa (Reducing conditions)

### QC Testing

Biological Activity:	<ol style="list-style-type: none"><li>1. ED 50 &lt; 0.1 µg/ml, measured by the neutralization assay using 929 cells in presence of 0.25 ng/ml of human TNF-beta, corresponding to a specific activity of &gt; 1.0 × 10<sup>4</sup> units/mg. &lt;br&gt;</li><li>2. Immobilized HVEM, hFc, Human at 2.0 µg/ml (100 µl/well) can bind biotinylated human BTLA. &lt;br&gt;</li><li>3. Immobilized HVEM, hFc, Human at 2.0 µg/ml (100 µl/well) can bind biotinylated CD160, hFc, Human.</li></ol>
Purity:	> 95% as determined by SDS-PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.2 EU/µg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

*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

Herpes Virus Entry Mediator (HVEM) is a transmembrane protein that is the receptor for TNFSF14 (also known as LIGHT) and is therefore referred to as TNFRSF14. HVEM is expressed broadly on immune cells such as T cells, natural killer (NK) cells and monocytes. The interaction of 3 molecules of LIGHT with three molecules of HVEM

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forms a hexameric complex that leads to the recruitment and retention of effector cells and activates NK cells to produce large amounts of IFN- $\gamma$  and GM-CSF. In addition to the canonical binding partner LIGHT, HVEM can also bind to the inhibitory signaling protein, B- and T- lymphocyte attenuator (BTLA), which suppresses immune responses. Therefore, the HVEM network plays an important role in regulating immunity and the behavior of lymphocytes.

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