

## HVEM-Fc Human Hi-5 Insect cells

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> Hi-5 Insect cells	RBG10178020	(20 µg)
<b>Species:</b> Human	RBG10178100	(100 µg)
<b>Other names:</b> HVEM, TNFSFR14, ATAR, TR2	RBG10178200	(200 µg)

### Description

HVEM belongs to the TNF Receptor superfamily of transmembrane proteins, and plays a role in the activation of T-cells and other lymphocytes. It is expressed in various cells and tissues, including spleen, thymus, lung, macrophages, and T-cells. HVEM activation induces a signaling cascade that results in the induction of transcription factors NF- $\kappa$ B and AP-1. LIGHT (TNFSF14) and TNF-beta (TNFSF1) function as the ligands for HVEM, which can also bind specifically to herpes simplex virus glycoprotein D. Soluble HVEM can act as a "receptor decoy" resulting in inhibition of the activity of the HVEM ligands, LIGHT and TNF-beta. Recombinant human HVEM-Fc Chimera is a 376 amino acid fusion protein that contains an N-terminal domain corresponding to the extracellular region of HVEM, and a C-terminal domain corresponding to residues 102 to 330 of human IgG1. The calculated molecular weight of Recombinant Human HVEM-Fc is 41.4 kDa.

### Research topic

Apoptosis

### Amino Acid Sequence

LPSCKEDEYYP VGSECCPKCS PGYRVKEACG ELTGTVCEPC PPGTYIAHLN GLSKCLQCQM CDPAMGLRAS RNCSTRTEHAV  
CGCSPGHFCI VQGDHCAAC RAYATSSPGQ RVQKGGTESQ DTLQCNCPPG TFSPNGTLEE CQHQTKRSCD KHTTCPPCPA  
PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ  
DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNQQPENNY  
KTTTPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMEHA LHNHYTQKSL SLSPGK

### Source

Hi-5 Insect cells

### Purity

98%

### Biological Activity

Determined by its ability to neutralize 0.25 ng/ml of hTNFbeta; induced cytotoxicity on murine L929 cells. The expected ED<sub>50</sub> for this effect is 1.3-1.9 µg/ml of HVEM-Fc.

### Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

### Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

### Storage, Stability/Shelf Life

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