



# Recombinant Human HVEM-Fc

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>SFC-040</b>
Size:	100 µg
Lot. No.:	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	8764
<b>Synonyms:</b>	TNFRSF14; TR2; ATAR; HVEA; HVEM; CD270; LIGHTR

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 which results in induction of transcription factors NF-kappaB 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 containing 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.

## Sequence

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LPSCKEDEYP VGSECCPKCS PGYRVKEACG ELTGTVCEPC
PPGTYIAHLN GLSKCLQCQM CDPAMGLRAS RNCSTRTENAV
CGCSPGHFCI VQDGDHCAAC RAYATSSPGQ RVQKGGTESQ
DTLCQNCPPG TFSPNGTLEE CQHQTKRSCD KTHTCPECPA
PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP
EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ
DWLNGKEYKC KVSNAKALPAP IEKTISKAKG QPREPQVYTL
PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNQGPENNY
KTTFPVLDSD GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA
LHNHYTQKSL SLSPGK
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## Database References

<b>Protein RefSeq:</b>	NP_003811.2
<b>Uniprot ID:</b>	Q92956
<b>mRNA RefSeq:</b>	NM_003820.2

## Product Specifications

<b>Expressed in</b>	Insect cells
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Tag</b>	Fc-tag
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	376
<b>MW:</b>	41.4 kDa

**Biological Activity:** Determined by its ability to neutralize 0.25 ng/ml of hTNFβ induced cytotoxicity on murine L929 cells. The expected ED50 for this effect is 1.3-1.9 µg/ml of HVEM-Fc.



**AVOID REPEATED FREEZE AND THAW CYCLES!**