

Recombinant Human TNFRSF14, Fc Chimera

Cat. No. TNFRSF14-945H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HVEM-Fc Chimera produced in <i>Insect cells</i> 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.
Species	Human
Source	Insect Cells
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 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.
Purity	> 98%, by SDS-PAGE and HPLC analysis.
Endotoxin Level	< 0.1 ng per µg sHVEM/Fc.
Stabilizer	None.
Formulation	Lyophilized.

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Biological Activity	Determined by its ability to neutralize 0.25 ng/ml of hTNF β induced cytotoxicity on murine L929 cells. The expected ED ₅₀ for this effect is 1.3-1.9 μ g/ml of HVEM-Fc.
Stability	The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted HVEM-Fc is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze-thaw cycles.
nullValue_other	Cytokine-cytokine receptor interaction; Signaling in Immune system
GENE INFORMATION	
Gene Name	TNFRSF14 tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator) [Homo sapiens]
Synonyms	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator); TR2; ATAR; HVEA; HVEM; LIGHTR; TNFRSF14; tumor necrosis factor receptor superfamily, member 14; CD40-like protein; herpesvirus entry mediator A; tumor necrosis factor receptor-like gene2; OTTHUMP00000000866; Herpesvirus entry mediator A; Tumor necrosis factor receptor-like 2
Gene ID	8764
mRNA Refseq	NM_003820
Protein Refseq	NP_003811
MIM	602746
UniProt ID	Q92956

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Chromosome Location	1p36.3-p36.2
Function	tumor necrosis factor receptor activity; transmembrane receptor activity; protein binding

PDB rendering based on 1jma.

