

Active Recombinant Human Tumor Necrosis Factor Receptor Superfamily, Member 14 (Herpesvirus Entry Mediator)

Cat. No. TNFRSF14-5144H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TNFRSF14 was expressed in Hi-5 Insect cells and purified by using conventional chromatography techniques.
Species	Human
Source	Human
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.
Form	Supplied as a lyophilized powder
Purity	>98% pure by SDS PAGE and HPLC
Sequence	Region of HVEM protein corresponding to amino acids LPSCKEDEYP VGSECCPKCS PGYRVKEACG ELTGTVCEPC PPGTYIAHLN GLSKCLQCQM CDPAMGLRAS RNCSTENAV CGCSPGHFCI VQGDGHCAAC RAYATSSPGQ RVQKGGTESQ DTLCQNCPPG TFSPNGTLEE CQHQTKRSCD KTHTCPPCPA

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PELLGGPSVF LFPPKPKDTL MISRT

Endotoxin Levels

Endotoxin level is less than 0.1 ng per ug (1 EU/ug).

Bioactivity

Determined by its ability to neutralize 0.25 ng/ml of hTNFbeta induced cytotoxicity on Mouse L929 cells. The expected ED50 for this effect is 1.3-1.9 ug/ml of HVEM-Fc.

Applications

Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions

Storage

Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name

[TNFRSF14 tumor necrosis factor receptor superfamily, member 14 \(herpesvirus entry mediator\) \[Homo sapiens \]](#)

Official Symbol

TNFRSF14

Synonyms

TNFRSF14; TR2; ATAR; HVEA; HVEM; CD270; LIGHTR; tumor necrosis factor receptor superfamily member 14; CD40-like protein; OTTHUMP00000000866; OTTHUMP00000204095; OTTHUMP00000204096; OTTHUMP00000204097; herpesvirus entry mediator A; herpes virus entry mediator A; tumor necrosis factor receptor-like 2; tumor necrosis factor receptor-like gene2; tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)

Gene ID

[8764](#)

mRNA Refseq

[NM_003820](#)

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Protein Refseq	NP_003811
MIM	602746
UniProt ID	Q92956
Chromosome Location	1p36.3-p36.2
Pathway	Adaptive Immunity Signaling; Costimulation by the CD28 family; Cytokine-cytokine receptor interaction; Cytokine-cytokine receptor interaction; Herpes simplex infection; Immune System
Function	protein binding; receptor activity; tumor necrosis factor receptor activity
PDBrendering based on 1jma.	