

**ARG70237**  
**Human HVEM / TR2 recombinant protein (Fc-His-tagged, C-ter)**Package: 100 µg  
Store at: -20°C

### Summary

Product Description	HEK293 expressed, Fc-His-tagged (C-ter) Human HVEM / TR2 recombinant protein.
Tested Reactivity	Hu
Tested Application	Binding, SDS-PAGE
Target Name	HVEM / TR2
Species	Human
A.A. Sequence	Leu39 - Val202 of Human HVEM / TR2 (NP_003811.2) with an Fc - 6X His tag at the C - terminus.
Expression System	HEK293
Alternate Names	Herpes virus entry mediator A; HVEM; Tumor necrosis factor receptor-like 2; HVEA; CD antigen CD270; CD270; Tumor necrosis factor receptor superfamily member 14; LIGHTR; HveA; Herpesvirus entry mediator A; ATAR; TR2

### Application Instructions

Application Note	Binding activity test: Measured by its binding ability in a functional ELISA. Immobilized Recombinant human HVEM at 5 µg/ml (100 µl/well) can bind Biotinylated Recombinant human BTLA with a linear range of 1.5-6 µg/ml.
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### Properties

Form	Powder
Purification Note	0.22 µm filter sterilized. Endotoxin level is 97% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Reconstitution	Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol	TNFRSF14
Gene Full Name	tumor necrosis factor receptor superfamily, member 14
Background	This gene encodes a member of the TNF (tumor necrosis factor) receptor superfamily. The encoded protein functions in signal transduction pathways that activate inflammatory and inhibitory T-cell immune response. It binds herpes simplex virus (HSV) viral envelope glycoprotein D (gD), mediating its entry into cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]
Function	Receptor for four distinct ligands: The TNF superfamily members TNFSF14/LIGHT and homotrimeric LTA/lymphotoxin-alpha and the immunoglobulin superfamily members BTLA and CD160, altogether

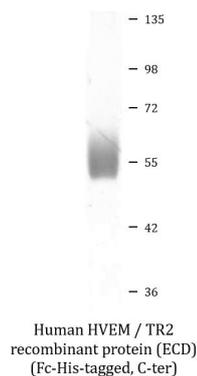
defining a complex stimulatory and inhibitory signaling network (PubMed:9462508, PubMed:10754304, PubMed:18193050, PubMed:23761635). Signals via the TRAF2-TRAF3 E3 ligase pathway to promote immune cell survival and differentiation (PubMed:19915044, PubMed:9153189, PubMed:9162022). Participates in bidirectional cell-cell contact signaling between antigen presenting cells and lymphocytes. In response to ligation of TNFSF14/LIGHT, delivers costimulatory signals to T cells, promoting cell proliferation and effector functions (PubMed:10754304). Interacts with CD160 on NK cells, enhancing IFNG production and anti-tumor immune response (PubMed:23761635). In the context of bacterial infection, acts as a signaling receptor on epithelial cells for CD160 from intraepithelial lymphocytes, triggering the production of antimicrobial proteins and proinflammatory cytokines (By similarity). Upon binding to CD160 on activated CD4+ T cells, downregulates CD28 costimulatory signaling, restricting memory and alloantigen-specific immune response (PubMed:18193050). May interact in cis (on the same cell) or in trans (on other cells) with BTLA (PubMed:19915044) (By similarity). In cis interactions, appears to play an immune regulatory role inhibiting in trans interactions in naive T cells to maintain a resting state. In trans interactions, can predominate during adaptive immune response to provide survival signals to effector T cells (PubMed:19915044) (By similarity).

(Microbial infection) Acts as a receptor for Herpes simplex virus 1/HHV-1.

(Microbial infection) Acts as a receptor for Herpes simplex virus 2/HHV-2. [UniProt]

Calculated Mw	30 kDa
PTM	N-glycosylated. [UniProt]
Cellular Localization	Membrane; Single-pass type I membrane protein. [UniProt]

## Images



ARG70237 Human HVEM / TR2 recombinant protein (ECD) (Fc-His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70237 Human HVEM / TR2 recombinant protein (ECD) (Fc-His-tagged, C-ter).