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## Datasheet for ABIN7319589 HVEM Protein (mFc Tag)

Target Type:

Background:



| Overview                      |  |
|-------------------------------|--|
| Quantity:                     | 50 µg  |
| Target:                       | HVEM (TNFRSF14)  |
| Origin:                       | Human  |
| Source:                       | Human Cells  |
| Protein Type:                 | Recombinant  |
| Purification tag / Conjugate: | This HVEM protein is labelled with mFc Tag.  |
| Product Details               |  |
| Purpose:                      | Recombinant Human HVEM/TNFRSF14 Protein (mFc Tag)  |
| Sequence:                     | Pro37-Val202   |
| Characteristics:              | Recombinant Human HVEM is produced by our Mammalian expression system and the target gene encoding Pro37-Val202 is expressed with a mFc tag at the C-terminus. |
| Purity:                       | > 95 % as determined by reducing SDS-PAGE.   |
| Endotoxin Level:              | < 1.0 EU per µg as determined by the LAL method.   |
| Target Details                |  |
| Target:                       | HVEM (TNFRSF14)  |
| Alternative Name:             | HVEM/TNFRSF14 (TNFRSF14 Products)  |
|                               |  |

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Background: Herpesvirus entry mediator (HVEM) is a type I membrane protein in the TNF

Viral Protein

|                   | receptor superfamily, and it can both promote and inhibit T cell activity. HVEM is highly    |
|-------------------|--|
|                   | expressed on na?ve CD4+ T cells, CD8+ T memory cells, regulatory T cells, dendritic cells,   |
|                   | monocytes, and neutrophils. It functions as a receptor for BTLA, CD160, LIGHT/TNFSF14, and   |
|                   | Lymphotoxin-alpha. Ligation of HVEM by LIGHT triggers T cell, monocyte, and neutrophil       |
|                   | activation and contributes to Th1 inflammation and cardiac allograft rejection. In contrast, |
|                   | HVEM binding to CD160 or BTLA suppresses T cell and dendritic cell activation and dampens    |
|                   | intestinal inflammation. HVEM enhances the development of CD8+ T cell memory and Treg        |
|                   | function. It is additionally expressed on intestinal epithelial cells, where its binding by  |
|                   | intraepithelial lymphocyte (IEL) expressed CD160 promotes epitheilal integrity and host      |
|                   | defense. The herpesvirus envelope glycoprotein gD, which binds HVEM to initiate membrane     |
|                   | fusion, can antagonize both BTLA and LIGHT binding.  |
|                   | Synonym: Tumor Necrosis Factor Receptor Superfamily Member 14, Herpes Virus Entry            |
|                   | Mediator A, Herpesvirus Entry Mediator A, HveA, Tumor Necrosis Factor Receptor-Like 2, TR2,  |
|                   | CD270, TNFRSF14, HVEA, HVEM  |
| Molecular Weight: | 44.1 kDa   |
| UniProt:          | Q92956   |
| Pathways:         | Production of Molecular Mediator of Immune Response, Cancer Immune Checkpoints               |

## Application Details

Restrictions:

For Research Use only

## Handling

| Format:          | Lyophilized   |
|------------------|---|
| Reconstitution:  | Please refer to the printed manual for detailed information.                                  |
| Buffer:          | Lyophilized from a 0.2 $\mu m$ filtered solution of PBS, 150 mM NaCl, pH 7.4.                 |
| Storage:         | 4 °C,-20 °C,-80 °C  |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.   |
|                  | Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted |
|                  | samples are stable at < -20°C for 3 months.   |

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