

# Recombinant mouse HVEM/TNFRSF14 protein

Catalog Number: ATGP3916

## PRODUCT INFORMATION

**Expression system**

Baculovirus

**Domain**

39-206aa

**UniProt No.**

Q80WM9

**NCBI Accession No.**

NP\_849262.1

**Alternative Names**

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, HVEM, ATAR, LIGHTR

## PRODUCT SPECIFICATION

**Molecular Weight**

45.3 kDa (407aa)

**Concentration**

0.25mg/ml (determined by absorbance at 280nm)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

**Purity**

> 90% by SDS-PAGE

**Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

**Tag**

hIgG-His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**

HVEM/TNFRSF14, also known as tumor necrosis factor receptor superfamily member 14, is a member of TNF receptor superfamily. This protein was originally known as herpesvirus entry mediator A (HveA); HveB and HveC are structurally unrelated proteins of the immunoglobulin superfamily. The cytoplasmic region of this receptor

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was found to bind to several TNF receptor associated factor (TRAF) family members, which may mediate the signal transduction pathways that activate the immune response. It promotes and inhibits T cell activity. This protein signals via the TRAF2-TRAF3 E3 ligase pathway to promote immune cell survival and differentiation. It participates in cell to cell contact signaling between antigen presenting cells and lymphocytes. This protein downregulates CD28 costimulatory signaling, restricting memory and alloantigen-specific immune response. Recombinant mouse HVEM/TNFRSF14, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

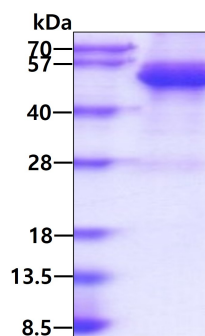
QPSCRQEEFL VGDECCPMCN PGYHVKQVCS EHTGTVCAPC PPQTYTAHAN GLSKCLPCGV CDPDMGLLTW  
QECSSWKDTV CRCIPGYFCE NQDGSHCSTC LQHTTCPPGQ RVEKRGTHDQ DTVCADCLTG TFSLGGTQEE CLPWTNCSAF  
QQEVRRTGNS TDTTCSSQ<LE PKSCDKHTC PPCAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN  
WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD  
ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTPP VLDSGDSFLL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY  
TQKSLSLSPG KHHHHHH>

## General References

Choi EK., et al. (2013) J Endocrinol. 220:25-33.  
Kotsiou E., et al. (2018) Blood. 128:72-81.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.