

Active Recombinant Human TNFRSF14 Protein (376 aa), Fc-tagged

Cat. No. TNFRSF14-141T **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human HVEM-Fc (rhHVEM-Fc) produced in Sf9 insect cells is a single glycosylated polypeptide chain containing 376 amino acids. A fully biologically active molecule, rhHVEM-Fc has a molecular mass of around 45 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.

Species Human

Source Sf9 Cells


ProteinLength 376

Description Herpes Virus Entry Mediator (HVEM) is a transmembrane protein that is the receptor for TNFSF14 (also known as LIGHT) and is therefore referred to as TNFRSF14. HVEM is expressed broadly on immune cells such as T cells, natural killer (NK) cells and monocytes. The interaction of 3 molecules of LIGHT with three molecules of HVEM forms a hexameric complex that leads to the recruitment and retention of effector cells and activates NK cells to produce large amounts of IFN- γ and GM-CSF. In addition to the canonical binding partner LIGHT, HVEM can also bind to the inhibitory signaling protein, B- and T- lymphocyte attenuator (BTLA), which suppresses immune responses. Therefore, the HVEM network plays an important role in regulating immunity and the behavior of lymphocytes.

Form Sterile Filtered White lyophilized (freeze-dried) powder.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	ED50 < 0.1 µg/mL, measured by the neutralization assay using 929 cells in presence of 0.25 ng/mL of human TNF-beta, corresponding to a specific activity of > 1 × 10 ⁴ units/mg.
Molecular Mass	~45 kDa, observed by reducing SDS-PAGE.
AA Sequence	<p>LPSCKEDEYYPVGSECCPKCSPGYRVKEACGELTGTVCEPCPPGTYIAHLNGLSKCL QCQMCDPAMGLRASRNCSTRTEAVCGCSPGHFCIVQDGDHCAACRAYATSSPGQ RVQKGGTESQDTLCQNCPPGTFSPNGTLEECQHQTKRSCDKTHTCPPCPAPPELLG GPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPR EEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVY TLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFL YSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK</p>
Endotoxin	< 0.2 EU/µg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant human HVEM-Fc (rhHVEM-Fc) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhHVEM-Fc remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O
GENE INFORMATION	
Gene Name	TNFRSF14 TNF receptor superfamily member 14 [Homo sapiens (human)]
Official Symbol	TNFRSF14

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Synonyms	TNFRSF14; TNF receptor superfamily member 14; TR2; ATAR; HVEA; HVEM; CD270; LIGHTR; tumor necrosis factor receptor superfamily member 14CD40-like proteinherpes virus entry mediator Atumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)tumor necrosis factor receptor-like gene2
Gene ID	8764
mRNA Refseq	NM_003820
Protein Refseq	NP_003811
MIM	602746
UniProt ID	Q92956

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