

Recombinant Human TNFRSF14 protein, Mouse IgG2a Fc-tagged, low endotoxin

Cat. No. TNFRSF14-372H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human TNFRSF14 protein (Leu39-Val202)(low endotoxin), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).

Species

Human

Source

HEK293

ProteinLength

164

Description

Herpesvirus entry mediator (HVEM) is also known as TNFRSF14, TR2 (TNF receptorlike molecule) and ATAR (another TRAF associated receptor), is a type I membrane protein belonging to the TNF/NGF receptor superfamily. HVEM expression has been detected in peripheral blood T cells, B cells, monocytes and in various tissues enriched in lymphoid cells. The extracellular domain of HVEM has been shown to interact directly with the herpes simplex virus envelope glycoprotein D (gD). Two TNF superfamily ligands, including the secreted TNF β (lymphotoxin α) and the membrane protein LIGHT (lymphotoxins, exhibits inducible expression, and competes with HSV glycoprotein D for HVEM, a receptor expressed by T lymphocytes), have been shown to be the cellular ligands for HVEM. Besides HVEM, LIGHT can also interact with LT β R, the receptor for lymphotoxin $\alpha\beta$ heterotrimer. The role of the HVEM LIGHT /LT β receptor ligand pair in immune function and herpesvirus pathobiology remains to be elucidated.

 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

Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 44.4 kDa. The protein migrates as 55-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.1 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TNFRSF14
Official Symbol	TNFRSF14
Synonyms	TNFRSF14; tumor necrosis factor receptor superfamily, member 14; tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator); tumor necrosis factor receptor superfamily member 14; ATAR; CD270; herpesvirus entry mediator; HVEA; HVEM; LIGHTR; TR2; CD40-like protein; herpesvirus entry mediator A; herpes virus entry mediator A; tumor necrosis factor receptor-like 2; tumor necrosis

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factor receptor-like gene2

Gene ID 8764

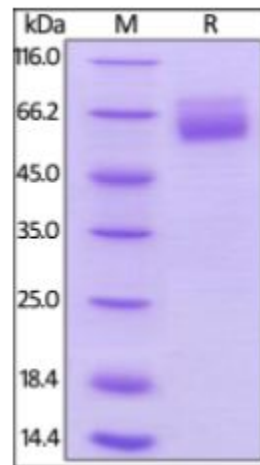
mRNA Refseq NM_003820

Protein Refseq NP_003811

MIM 602746

UniProt ID Q92956

**SDS-PAGE of
TNFRSF14-372H**



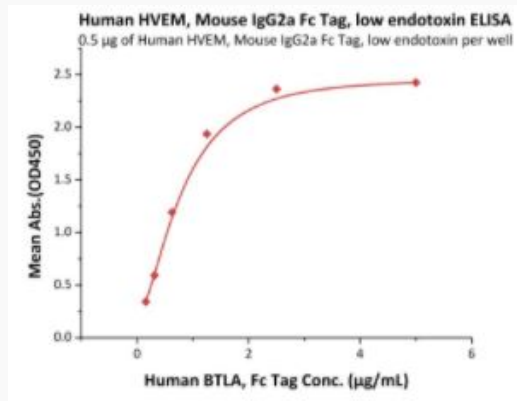
Human HVEM, mouse IgG2a Fc Tag, low endotoxin on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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**Bioactivity-ELISA of
TNFRSF14-372H**



Immobilized Human HVEM, Mouse IgG2a Fc Tag, low endotoxin at 5 µg/mL (100 µL/well) can bind Human BTLA, Fc Tag with a linear range of 0.156-1.25 µg/mL (QC tested).

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