

Recombinant Human TNFRSF14 Protein, His-tagged, Alexa Fluor 555 conjugated

Cat. No. TNFRSF14-555HAF555 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Alexa Fluor 555 conjugated recombinant human TNFRSF14 (Leu39-Val202) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).

Species

Human

Source

HEK293

ProteinLength

Leu39-Val202

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.

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Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 19.2 kDa. The protein migrates as 33-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
N-terminal Sequence Analysis	Leu 39
Endotoxin	< 1.0 EU/ µg by the LAL method.
Purity	> 90 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 555 via amines With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.
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 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

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Conjugation Alexa Fluor 555

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 factor receptor-like gene2

Gene ID 8764

mRNA Refseq NM_003820

Protein Refseq NP_003811

MIM 602746

UniProt ID Q92956

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