

Recombinant Human TNFRSF14, Fc-His

Cat. No. TNFRSF14-1691H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFRSF14 was expressed in a mouse myeloma cell line, NSO. The DNA sequence encoding the extracellular domain of human HVEM was fused to the carboxy-terminal 6X histidine-tagged region of human IgG1 via a linker peptide and inserted into a suitable expression vector.
Species	Human
Source	Mammalian Cells
Description	Tumor necrosis factor receptor superfamily member 14 (herpesvirus entry mediator), also known as TNFRSF14, is the cellular receptor for TNF superfamily 14 (LIGHT). TNFRSF14 is a type I membrane protein that is considered as a Herpesvirus entry mediator. It is able to inhibit the proliferation, activation, and cytokine production of T cells. TNFRSF14 is expressed by peripheral blood T cells, B cells, monocytes and in various tissues enriched in lymphoid cells.
Molecular Weight	The predicted molecular weight of Recombinant Human TNFRSF14 is Mr 45 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 60 kDa.
Amino Acid Sequence	N-Terminus: human HVEM (Met 1 - Val 202); IEGRMD Human IgG1 (Pro 100 - Lys 330); HHHHHH C-Terminus.
State Of Matter	Lyophilized.

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Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives present.
Purity	>95% by SDS Page and analyzed by silver stain.
Endotoxin	<0.1 ng per 1 µg as determined by the LAL method.
Biological Activity	The biological activity of Human HVEM-Fc was determined by its ability to inhibit apoptosis of mouse L-929 cells treated with 0.1 ng/mL of rhTNF-β. The expected ED50 for this effect is typically 0.5 - 2 µg/mL.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.
GENE INFORMATION	
Gene Name	TNFRSF14 tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator) [Homo sapiens]
Synonyms	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator); TR2; ATAR; HVEA; HVEM; LIGHTR; TNFRSF14; tumor necrosis factor receptor superfamily, member 14; CD40-like protein; herpesvirus entry mediator A; tumor necrosis factor receptor-like gene2; OTTHUMP00000000866; Herpesvirus entry mediator A; Tumor necrosis factor receptor-like 2
Gene ID	8764

mRNA Refseq	NM_003820
Protein Refseq	NP_003811
MIM	602746
UniProt ID	Q92956
Chromosome Location	1p36.3-p36.2
Pathway	Cytokine-cytokine receptor interaction; Signaling in Immune system
Function	tumor necrosis factor receptor activity; transmembrane receptor activity; protein binding
PDB rendering based on 1jma.	