

TECHNICAL DATA SHEET

Recombinant Human HVEM-Fc (Carrier-free)

Catalog Number: 21-7063

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION
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Recombinant Human HVEM-Fc (Carrier-free)

DESCRIPTION

Herpesvirus entry mediator (HVEM), also referred to as TNFRSF14 or CD270, is a member of the tumor necrosis factor (TNF) receptor family. The protein functions in signal transduction pathways that activate inflammatory and inhibitory T-cell immune responses. It is expressed in a variety of cell and tissue types including spleen, thymus, lung, macrophages, and T-cells. Studies suggest that HVEM plays a various regulatory roles in the mucosal immune system. The extracellular domain of HVEM has been shown to interact directly with the herpes simplex virus envelope glycoprotein D. LIGHT (TNFSF14) and TNF-beta (TNFSF1, lymphotoxin-alpha) function as the cellular ligands for HVEM.

MOLECULAR MASS

Recombinant human HVEM-Fc Chimera is a 376 amino acid fusion protein containing an N-terminal domain corresponding to the extracellular region of HVEM and a C-terminal domain corresponding to residues 102 to 330 of human IgG1. The protein has a predicted molecular mass of approximately 45 kD.

AMINO ACID SEQUENCE

LPSCKEDEYP VGSECCPKCS PGYRVKEACG ELTGTVCEPC PPGTYIAHLN GLSKCLQCQM CDPAMGLRAS RNCSTRNAV
 CGCSPGHFCI VQDGDHCAAC RAYATSSPGQ RVQKGGTESQ DTLCQNCPPG TFSPNGTLEE CQHQTKRSCD KTHTCPPCPA
 PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ
 DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNQGPENNY
 KTTTPVLDSG GSFFLYSKLTV DKSRWQQGNV FSCSVMHEAL HNHYTQKSL S LSPGK

SOURCE

Hi-5 Insect cells

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Mouse

BIOACTIVITY

Determined by its ability to neutralize 0.25 ng/ml of hTNF-beta; induced cytotoxicity on murine L929 cells. The expected ED₅₀ for this effect is 1.3-1.9 μg/ml of HVEM-Fc.

RESEARCH AREAS

Apoptosis; Receptors; TNF Superfamily

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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