

TECHNICAL DATA SHEET

# Recombinant Human VAP-1 (Carrier-free)

Catalog Number: 21-7090

**RPx-Pro™ Recombinant Protein**  
PRODUCT INFORMATION

**CONTENTS**

Recombinant Human VAP-1 (Carrier-free)

**DESCRIPTION**

Vascular adhesion protein-1 (VAP-1) is a type II membrane cell adhesion protein belonging to the copper/topaquinone oxidase family and functions both as an enzyme and an adhesion molecule for lymphocytes. VAP-1 is primarily expressed on the high endothelial venules of peripheral lymph nodes and on hepatic endothelia. Inhibition of VAP-1 can protect against inflammation related damage to certain injured tissues.

**MOLECULAR MASS**

Recombinant VAP-1 is a mixture of monomeric and disulfide linked homodimeric forms of a 737 amino acid polypeptide corresponding to amino acids 27 to 763 of the VAP-1 precursor.

**AMINO ACID SEQUENCE**

GRGGDGGEPS QLPHCPSVSP SAQPWTHPGQ SQLFADLSRE ELTAVMRFLT QRLGPGLVDA AQARPSDNCV FSVELQLPPK  
 AAALAHLD RG SPPPAREALA IVFFGRQPQP NVSELVVGPL PPHSYM RDVT VERHGGPLPY HRRPVLFQEY LDIDQMIFNR  
 ELPQASGL LH HCCFYKHRGR NLVTMTTAPR GLQSGDRATW FGLYYNISGA GFFLHHVGLE LLVNHKALDP ARWTIQKV FY  
 QGRYYDSL AQ LEAQFEAGLV NVVLIPDNGT GGSWSLKSPV PPGPAPPLQF YPQGPRFSVQ GSRVASSLWT FSFGLGAFSG  
 PRIFDVRFQG ERLVYEISLQ EALAIYGGNS PAAMTTRYVD GGFGMGKYTT PLTRGVDCPY LATYVDWHFL LESQAPKTIR  
 DAFCVFEQ NQ GLPLRRHHS D LYSHYFGGLA ETVLVRSMS TLLNYDYVWD TVFHPSGAIE IRFYATGYIS SAFLFGATGK  
 YGNQVSEHTL GTVHTHSAHF KVDLDVAGLE NWWAEDMVF VPMVWPWSPE HQLQRLQVTR KLEMEMEQAA FLVGSATPRY  
 LYLASNHSNK WGHPRGYRIQ MLSFAGEPLP QNSSMARGFS WERYQLAVTQ RKEEEPSSSS VFNQNDPWAP TVDFSDFINN  
 ETIAGKDLVA WVTAGFLHIP HAEDIPNTVT VGNGVGFLLR PYNFFDEDPS FYSADSIYFR GDQDAGACEV NPLACL PQA  
 ACAPDLPAFS HGGFSHN

**SOURCE**

CHO 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**

**BIOACTIVITY**

Measured by its ability to produce hydrogen peroxide during the oxidation of benzylamine. The specific activity > 16 pMoles/min/μg of VAP-1.

**RESEARCH AREAS**

Angiogenesis/Cardiovascular; Cancer; Inflammation

**RECONSTITUTION**

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

**REFERENCES**

Jalkanen S and Salmi M. 1993. Behring Inst Mitt. 93: 36-43. Salmi M and Jalkanen S. 2001. Trends Immunol. 22(4): 211-216. Jalkanen S, Karikoski M, Mercier N, Koskinen K, Henttinen T, Elima K, Salmivirta K and Salmi M. 2007. Blood. 110(6): 1865-1870.

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.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.