

## 32-20603: Recombinant Human VAP-1(Discontinued)

**Alternative Name :** Vascular Adhesion Protein-1, AOC3, SSAO, HPAO, Copper Amine Oxidase, Membrane Primary Amine Oxidase

### Description

#### Source:CHO cells

VAP-1 is a type II membrane cell adhesion protein belonging to the copper/topaqui oxidase family. It is primarily expressed on the high endothelial venules of peripheral lymph nodes and on hepatic endothelia. VAP-1 can catalyze the oxidative deamination of low molecular weight amines, and plays an important role in the migration of lymphocytes to inflamed tissue. Inhibition of VAP-1 can protect against inflammation-related damage to certain injured tissues. Additionally, VAP-1 can function as a significant prognostic marker for certain cancers and cardiovascular diseases. Recombinant Human 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. The calculated molecular weight of Recombinant Human VAP-1 is 81.8 kDa.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Purity:>= 98% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** GRGGDGGEPS QLPHCPSVSP SAQPWTHPGQ SQLFADLSRE ELTAVMRFLT QRLGPGLVDA  
AQARPSDNCV FSVELQLPPK AAALAHLD RG SPPPAREALA IVFFGRQPQ NVSELVVGPL PHPSYMRDVT  
VERHGGPLPY HRRPVLFQ EY LDIDQMIFNR ELPQASGLLH HCCFYKHRGR NLVTMTTAPR GLQSGDRATW  
FGLYNNISGA GFFLHHVGL E LLVNHKALDP ARWTIQKVFY QGRYYDSLAQ LEAQFEAGLV NVVLIPDNGT  
GGSWSLKSPV PPGPAPPLQF YPQGPRFSVQ GSRVASSLWT FSFGLGAFSG PRIFDVRFQG ERLVYEISLQ  
EALAIYGGNS PAAMTTRYVD GGFGMGKYTT PLTRGVDCPY LATYVDWHFL LESQAPKTIR DAFCVFEQNQ  
GLPLRRHSD LYSHYFGGLA ETVLVRSMS TLLNYDYVWD TVFHPSGAIE IRFYATGYIS SAFLFGATGK  
YGNQVSEHTL GTVHTSAHF KVDLDVAGLE NWWAEDMVF VPMVPWSPE HQLQRLQVTR  
KLLEMEEQAA FLVGSATPRY LYLASNHSNK WGHPRGYRIQ MLSFAGEPLP QNSSMARGFS WERYQLAVTQ  
RKEEPPSSSS VFNQNDPWAP TVDFSDFINN ETIAGKDLVA WVTAGFLHIP HAEDIPNTVT VGNGVGFLLR  
PYNFFDEDP S FYSADSIYFR GDQDAGACEV NPLACL P QAA ACAPDLPAFS HGGFSHN

### Application Note

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