# Recombinant human VAP-1/AOC3 protein

Catalog Number: ATGP3924

## PRODUCT INFORMATION

**Expression system**
Baculovirus

**Domain**
27-763aa

**UniProt No.**
Q16853

**NCBI Accession No.**
NP_003725

**Alternative Names**
VAP-1, AOC3, HPAO, VAP1, Membrane primary amine oxidase, Copper amine oxidase, HPAO, Semicarbazide-sensitive amine oxidase, SSAO, Vascular adhesion protein 1

## PRODUCT SPECIFICATION

**Molecular Weight**
82.8 kDa (746aa)

**Concentration**
0.25mg/ml (determined by absorbance at 280nm)

**Formulation**
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

**Purity**
> 90% by SDS-PAGE

**Endotoxin level**
< 1 EU per 1ug of protein (determined by LAL method)

**Tag**
His-Tag

**Application**
SDS-PAGE

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**
VAP-1, also known as membrane primary amine oxidase isoform 1, a copper amine oxidase with a topaquinone cofactor. It is a cell adhesion protein that participates in lymphocyte extravasation and recirculation by mediating the binding of lymphocytes to peripheral lymph node vascular endothelial cells in an L-selectin-

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independent fashion. This protein plays a role in adipogenesis. It catalyzes the oxidative deamination of small primary amines such as methylamine, benzylamine, and aminoacetone in a reaction that produces an aldehyde, ammonia, and H2O2. Recombinant human VAP-1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

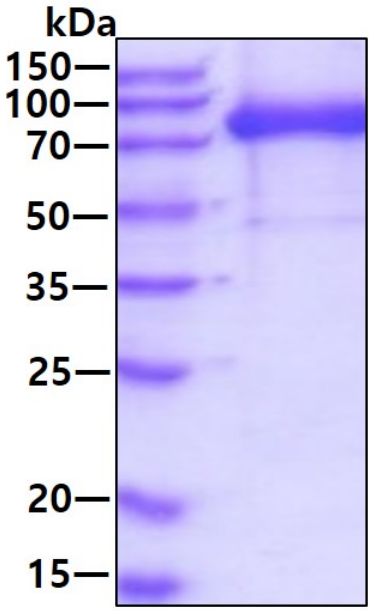
<ADP>GRGGDGG EPSQLPHCPS VSPSAQPWTH PGQSQLFADL SREELTAVMR FLTQRLGPGL VDAAQARPSD NCVFSVELQL PPKAAALAHL DRGSPPPARE ALAIVFFGRQ PQPNVSELVV GPLPHPSYMR DVTVERHGGP LPYHRRPVLF QEYLDIDQMI FNRELPQASG LLHHCCFYKH RGRNLVTMTT APRGLQSGDR ATWFGLYYNI SGAGFFLHHV GLELLVNHKA LDPARWTIQK VFYQGRYYDS LAQLEAQFEA GLVNVVLIPD NGTGGSWSLK SPVPPGPAPP LQFYPQGPRF SVQGSRVASS LWTFSFGLGA FSGPRIFDVR FQGERLVYEI SLQEALAIYG GNSPAAMTTR YVDGGFGMGK YTTPLTRGVD CPYLATYVDW HFLLESQAPK TIRDAFCVFE QNQGLPLRRH HSDLYSHYFG GLAETVLVVR SMSTLLNYDY VWDTVFHPSG AIEIRFYATG YISSAFLFGA TGKYGNQVSE HTLGTVHTHS AHFKVDLDVA GLENWVWAED MVFVPMAVPW SPEHQLQRLQ VTRKLLEMEE QAAFLVGSAT PRYLYLASNH SNKWGHPRGY RIQMLSFAGE PLPQNSSMAR GFSWERYQLA VTQRKEEEPS SSSVFNQNDP WAPTVDFSDF INNETIAGKD LVAWVTAGFL HIPHAEDIPN TVTVGNGVGF FLRPYNFFDE DPSFYSADSI YFRGDQDAGA CEVNPLACLP QAAACAPDLP AFSHGGFSHN <HHHHHH>

### General References

Hsia LT., et al. (2016) Proc Natl Acad Sci U S A. 113:E2162-71
Trivedi PJ., et al. (2018) Gut. 67:1135-1145

## DATA

### SDS-PAGE




3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.