VAP-1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	VAP-1, Recombinant Protein
Full Product Name	Recombinant Human VAP-1 Protein
Product Gene Name	VAP-1 recombinant protein
Product Synonym Gene Name	AOC3
Product Synonym Names	VAP1; Membrane primary amine oxidase; Copper amine oxidase; HPAO; Semicarbazide-sensitive amine oxidase; SSAO; Vascular adhesion protein 1; VAP-1
Sequence	RGGDGGEPSQ LPHCPSVSPS AQPWTHPGQS QLFADLSREE LTAVMRFLTQ RLGPGLVDAA QARPSDNCVF SVELQLPPKA AALAHLDRGS PPPAREALAI VFFGRQPQPN VSELVVGPLP HPSYMRDVTV ERHGGPLPYH RRPVLFQEYL DIDQMIFNRE LPQASGLLHH CCFYKHRGRN LVTMTTAPRG LQSGDRATWF GLYYNISGAG FFLHHVGLEL LVNHKALDPA RWTIQKVFYQ GRYYDSLAQL EAQFEAGLVN VVLIPDNGTG GSWSLKSPVP PGPAPPLQFY PQGPRFSVQG SRVASSLWTF SFGLGAFSGP RIFDVRFQGE RLVYEISLQE ALAIYGGNSP AAMTTRYVDG GFGMGKYTTP LTRGVDCPYL ATYVDWHFLL ESQAPKTIRD AFCVFEQNQG LPLRRHHSDL YSHYFGGLAE TVLVVRSMST LLNYDYVWDT VFHPSGAIEI RFYATGYISS AFLFGATGKY GNQVSEHTLG TVHTHSAHFK VDLDVAGLEN WVWAEDMVFV PMAVPWSPEH QLQRLQVTRK LLEMEEQAAF LVGSATPRYL YLASNHSNKW GHPRGYRIQM LSFAGEPLPQ NSSMARGFSW ERYQLAVTQR KEEEPSSSSV FNQNDPWAPT VDFSDFINNE TIAGKDLVAW VTAGFLHIPH AEDIPNTVTV GNGVGFFLRP YNFFDEDPSF YSADSIYFRG DQDAGACEVN PLACLPQAAA CAPDLPAFSH GGFSHNHHHH HH
Host	Human Cells
Form/Format	Liquid in a 0.2 uM filtered solution of 20mM Tris-HCl, 500mM NaCl, pH8.0 .
Purity/Purification	>95% as determined by reducing SDS-PAGE
Preparation and Storage	Store it at -20 degree C to -80 degree C for one year. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
OMIM	603735
3D Structure	ModBase 3D Structure for Q16853
Endotoxin	Less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
Applications Tested/Suitable for VAP-1 recombinant protein	ELISA (EIA), Western Blot (WB), SDS-PAGE
Related Product Information for VAP-1 recombinant protein	Recombinant Human VAP-1 Protein is produced by mammalian expression system and the target gene encoding Arg27-Asn763 is expressed with a 6His tag at the C-terminus.
Other Notes	Small volumes of VAP-1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VAP-1 purchase	MBS8305121 is a recombinant protein targeting VAP-1. Also known as Recombinant Human VAP-1 Protein. Host: Human Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VAP-1. It may not necessarily be applicable to this product.

NCBI GI #	2501336
NCBI GeneID	8639

NCBI Accession #	Q16853.3
UniProt Primary Accession #	Q16853
UniProt Related Accession #	Q16853
NCBI Official Full Name	Membrane primary amine oxidase
NCBI Official Synonym Full Names	amine oxidase copper containing 3
NCBI Official Symbol	AOC3
NCBI Official Synonym Symbols	HPAO; SSAO; VAP1; VAP-1
UniProt Protein Name	Membrane primary amine oxidase
UniProt Synonym Protein Names	Copper amine oxidase; HPAO; Semicarbazide-sensitive amine oxidase; SSAO; Vascular adhesion protein 1; VAP-1
Protein Family	Vesicle-associated protein
UniProt Gene Name	AOC3
UniProt Synonym Gene Names	VAP1; SSAO; VAP-1
UniProt Entry Name	AOC3_HUMAN
NCBI Protein Information	membrane primary amine oxidase
NCBI Summary for VAP-1	This gene encodes a member of the semicarbazide-sensitive amine oxidase family. Copper amine oxidases catalyze the oxidative conversion of amines to aldehydes in the presence of copper and quinone cofactor. The encoded protein is localized to the cell surface, has adhesive properties as well as monoamine oxidase activity, and may be involved in leukocyte trafficking. Alterations in levels of the encoded protein may be associated with many diseases, including diabetes mellitus. A pseudogene of this gene has been described and is located approximately 9-kb downstream on the same chromosome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2013]
UniProt Comments for VAP-1	AOC3: Cell adhesion protein that participates in lymphocyte recirculation by mediating the binding of lymphocytes to peripheral lymph node vascular endothelial cells in an L-selectin- independent fashion. Has a monoamine oxidase activity. May play a role in adipogenesis. Belongs to the copper/topaquinone oxidase family. Protein type: Cell adhesion; Oxidoreductase; Amino Acid Metabolism - phenylalanine; Other Amino Acids Metabolism - beta-alanine; Membrane protein, integral; Amino Acid Metabolism - tyrosine; Amino Acid Metabolism - glycine, serine and threonine; EC 1.4.3.21 Chromosomal Location of Human Ortholog: 17q21 Cellular Component: cell surface; microvillus; cytoplasm; plasma membrane; integral to membrane Molecular Function: amine oxidase activity; protein binding; protein homodimerization activity; copper ion binding; protein heterodimerization activity; cation channel activity; calcium ion binding; quinone binding Biological Process: response to antibiotic; amine metabolic process; cell adhesion; inflammatory response; cation transport
Research Articles on VAP-1	**1.** The study showed that serum VAP-1 level increased with an increasing severity of obstruction in patients with stable COPD. This increase was associated with a reduced quality of life and increased severity of hypoxia.
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