AOC3 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	AOC3, Recombinant Protein
Full Product Name	Recombinant Human AOC3
Product Gene Name	AOC3 recombinant protein
Product Synonym Names	Membrane primary amine oxidase; Copper amine oxidase; Semicarbazide-sensitive amine oxidase; Vascular adhesion protein 1; AOC3; VAP-1; SSAO; HPAO
Sequence	Arg28-Asn7 63
Host	Mammalian Cells
Form/Format	Lyophilized from a 0.2um filtered solution of 20mM Tris, 500mM NaCl, pH8.0
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable at -20 degree C for up to 1 year. After reconstitution, the protein solution is stable at -20 to -80 degree C for 3 months or 1 week at 2 to 8 degree C under sterile conditions. For extended storage, it is recommended to further dilute in working aliquots, avoid repeated freeze/thaw cycle.
Molecular Weight	763
OMIM	603735
3D Structure	ModBase 3D Structure for Q16853
Species	Human
Endotoxin	< 1 EU/ug as determined by LAL test.
Tag	C-terminal hFc Tag
Reconstitution	Centrifuge the vial at 10000rpm for 30s before opening, reconstitute in sterile distilled water to a concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex.
Product Categories/Family for AOC3 recombinant protein	cytokines
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for AOC3 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for AOC3 recombinant protein	MBS7621620 is a recombinant protein targeting AOC3. Also known as Recombinant Human AOC3. Host: Mammalian Cells.
Other Notes	Small volumes of AOC3 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AOC3. It may not necessarily be applicable to this product.

NCBI GI #	2501336
NCBI GeneID	8639
NCBI Accession #	Q16853.3

UniProt Primary Accession #	Q16853
UniProt Secondary Accession #	Q45F94; B2RCI5; K7ESB3; L0L8N9
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	Allene oxide cyclase
UniProt Gene Name	AOC3
UniProt Synonym Gene Names	VAP1; SSAO; VAP-1
UniProt Entry Name	AOC3_HUMAN
NCBI Protein Information	membrane primary amine oxidase; copper amine oxidase; placenta copper monamine oxidase; semicarbazide-sensitive amine oxidase; amine oxidase, copper containing 3 (vascular adhesion protein 1)
NCBI Summary for AOC3	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 AOC3	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 AOC3	**1.** Serum VAP-1 predicts mortality independently and improves risk stratification in colorectal cancer subjects.
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