

Membrane Primary Amine Oxidase/AOC3 Recombinant Protein | AOC3 recombinant protein

Recombinant Human Membrane Primary Amine Oxidase/AOC3 Protein (C-Fc)

CATALOG # AAA174699	HOST Human Cells	REACTIVITY Human
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PRODUCT SYNONYMS

Membrane Primary Amine Oxidase/AOC3; Recombinant Human Membrane Primary Amine Oxidase/AOC3 Protein (C-Fc); Membrane primary amine oxidase; Copper amine oxidase; Semicarbazide-sensitive amine oxidase; Vascular adhesion protein 1; AOC3; VAP-1; SSAO; HPAO; AOC3 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Reactivity	Human
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered solution of 20mM Tris-HCl, 500mM NaCl, pH8.0.
Sequence	Arg28-Asn7 63
Sequence Length	763
Endotoxin	< 1.0 EU per ug as determined by the LAL method.
Tag	C-Fc
Reconstitution	Centrifuge before opening to ensure complete recovery of vial contents. Do Not Vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Shipping Note: This product is provided as lyophilized powder which is shipped with ice packs.

ADDITIONAL INFORMATION

Related Product Information for AOC3 recombinant protein	Description: Membrane primary amine oxidase(AOC3); also known as vascular adhesion protein (VAP-1) and HPAO; this protein is a member of the semicarbazide-sensitive amine oxidase (SSAO) family. VAP-1 is a type 1 membrane-bound glycoprotein that has a distal adhesion domain and an enzymatically active amine oxidase site outside of the membrane; VAP-1 has adhesive properties; functional monoamine oxidase activity; and possibly plays a role in glucose handling; leukocyte trafficking; and migration during inflammation. This rise in metabolic products contributes to generating advanced glycation end-products and oxidative stress along with the monoamine detoxification in the organism. It is highly expressed on the endothelium of the lung and trachea; and absent from leukocytes and epithelial cells. Membrane-bound VAP-1 releases an active; soluble form of the protein; which may be conducive to increased inflammation and the progression of many vascular disorders. In particular; elevation of VAP-1 activity and the increased enzymatic-mediated deamination is proposed to play a role in renal and vascular disease; oxidative stress; acute and chronic hyperglycemia; and diabetes complications.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2501336
NCBI GeneID	8639

UniProt Accession #	Q16853
Molecular Weight	Molecular Mass: 108.5kDa Aproximate Molecular Mass: 120kDa
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
NCBI Protein Information	membrane primary amine oxidase
UniProt Protein Name	Membrane primary amine oxidase
UniProt Gene Name	AOC3
UniProt Synonym Gene Names	VAP1; SSAO; VAP-1
UniProt Entry Name	AOC3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/aoc3-recombinant-protein-human-cells/174699>