

# Recombinant Human VAP-1/AOC3 Protein (His Tag)

Catalog Number: PKSH032744



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

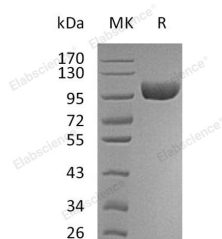
## Description

<b>Synonyms</b>	Membrane primary amine oxidase; Copper amine oxidase; HPAO; Semicarbazide-sensitive amine oxidase; SSAO; Vascular adhesion protein 1; VAP-1; AOC3; VAP1
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Arg28-Asn763
<b>Accession</b>	Q16853
<b>Calculated Molecular Weight</b>	82.6 kDa
<b>Observed molecular weight</b>	90-110 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 500mM NaCl, pH 8.0.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Vascular adhesion protein-1 (VAP-1) is a copper amine oxidase with a topaquinone cofactor. VAP-1 is a type II integral membrane protein; but a soluble form of the enzyme is present in human serum; and its level increases in diabetes and some inflammatory liver diseases. VAP-1 catalyzes the oxidative deamination of small primary amines such as methylamine; benzylamine; and aminoacetone in a reaction that produces an aldehyde; ammonia; and H<sub>2</sub>O<sub>2</sub>. VAP-1 vascular expression is regulated at sites of inflammation through its release from intracellular granules in which the protein is stored. The adhesive function of VAP-1 has been demonstrated in studies showing that the protein is important for the adherence of certain lymphocyte subtypes to inflamed endothelial tissues. VAP-1 mediated adhesion is involved in the process of leukocyte extravasation; an important feature of inflammatory responses. VAP-1 is considered to be a therapeutic target for diabetes; oxidative stress; and inflammatory diseases.

## For Research Use Only

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