

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

Catalog Number:PKSH032744



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

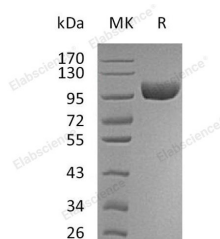
Description

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

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	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.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 500mM NaCl, pH 8.0.
Reconstitution	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 H₂O₂. 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.

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