

Product datasheet for **TP726942**

VAP1 (AOC3) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Membrane Primary Amine Oxidase/AOC3(C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Arg27-Asn763
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of 20mM Tris-HCl, 500mM NaCl, pH 8.0 .
Note:	Recombinant Human Membrane Primary Amine Oxidase is produced by our Mammalian expression system and the target gene encoding Arg28-Asn763 is expressed with a 6His tag at the C-terminus.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	8639
UniProt ID:	Q16853
Synonyms:	Membrane primary amine oxidase; Copper amine oxidase; HPAO; Semicarbazide-sensitive amine oxidase; SSAO; Vascular adhesion protein 1; VAP-1; AOC3; VAP1
Summary:	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 ₂ O ₂ . 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.
Protein Families:	Transmembrane



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Protein Pathways: beta-Alanine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism