

32-7703: Recombinant Human Membrane Primary Amine Oxidase/AOC3(C-6His)

Gene : AOC3
Gene ID : 8639
Uniprot ID : Q16853

Description

Source: Human cells.
MW :82.6kD.

Recombinant Human Membrane Primary Amine Oxidase is produced by our Mammalian expression system and the target gene encoding Arg27-Asn763 is expressed with a 6His tag at the C-terminus. 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.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 20mM Tris, 500mM NaCl, pH8.0.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : RGGDGGEP SQLPHCPSPSAQPWTHPGSQLFADLSREELTAVMRFLTQRLGPGGLVDAAQARP
SDNCVFSVELQLPPKAAALAHLDRGSPPPAREALAIFFGRQPQPNVSELVVGPLPHPSYMRDVT
ERHGGPLPYHRRPVLFQEYLDIDQMIFNREL PQASGLLHHCCFYKHRGRNLVTMTTAPRGLQSGD
RATWFGLYYNISGAGFFLHHVGLLELLVNHKALDPARWTIQKFYQGRYYDSLAEQFEAGLVNV
VLIPDNGTGGSWSLKSPVPPGPAPPLQFYPPQGRFSVQGSRVASSLWTF SFGLGAFSGPRIFDVR
FQGERLVYEISLQELAIYGGNSPAAMTTRYVDGGFGMGKYTTPLTRGVDCPYLATYVDWHFLLES
QAPKTIRDAFCVFEQNQGLPLRRHHS DLYSHYFGGLAETLVVVRSMSTLLNYDYVWDTVFHPSGAI
EIRFYATGYISSAFLFGATGKYGNQVSEHTLGTVHTHSAHFKVDLDVAGLENWVWAEDMVFPMA
VPWSPEHQLQRLQVTRKLLEMEEQAAFLVGSATPRYLYLASNHSNKWGHPRGYRIQMLS FAGEPL
PQNSSMARGFSWERYQLAVTQRKEEEPSSSSVFNQNDPWAPTVD FSDFINNETIAGKDLVAWVT
AGFLHIPHAEDIPNTVTVGNGVGFFLRPYNFFDEDPSFYSADSIYFRGDQDAGACEVNPLACLPQA
AACAPDLPAFSGHGGF SHNHHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.