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Datasheet for ABIN2667600
AOC3 Protein (AA 27-763)

Overview

Quantity:	10 µg
Target:	AOC3
Protein Characteristics:	AA 27-763
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Multiplex Assay (MA)

Product Details

Purity:	>98 % , as determined by Coomassie stained SDS-PAGE.
Endotoxin Level:	Less than 0.1 ng per µg of protein.

Target Details

Target:	AOC3
Alternative Name:	VAP-1 (AOC3 Products)
Background:	VAP-1 is a type II cell adhesion membrane protein belonging to the copper/topaquinone oxidase family. Functionally, VAP-1 is a nonclassical inflammation-inducible endothelial molecule involved in leukocyte-subtype-specific rolling under physiological shear. Molecularly, VAP-1 belongs to a special class of cell surface amino oxidases. The enzymatic reaction itself and the biologically active end products can potentially regulate the adhesive status of the

Target Details

vessel wall. Thus, VAP-1 is an ectoenzyme that has inter-related adhesive and enzymatic functions in regulating physiological trafficking and inflammation. Inhibition of VAP-1 can protect against inflammation related damage to certain injured tissues. This protein is primarily expressed on the high endothelial venules of peripheral lymph nodes and on hepatic endothelia. Additionally, VAP-1 can function as a significant prognostic marker for certain cancers and cardiovascular diseases.

Molecular Weight: The 737 amino acid recombinant protein has a predicted molecular mass of approximately 84 kDa. Recombinant VAP-1 is a mixture of monomers and disulfide linked homodimers. The predicted N-terminal amino acid is Gly.

Pathways: [Feeding Behaviour](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Biological activity: Human VAP-1 is able to produce hydrogen peroxide during the oxidation of benzylamine. The specific activity is > 16 pMoles/min/ μ g of VAP-1.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: For maximum results, quick spin vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/mL. Do not vortex. It is recommended to further dilute in a buffer containing a carrier protein such as 0.1 % BSA and store working aliquots at -20 °C to -80 °C.

Buffer: Lyophilized

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -20 °C

Storage Comment: Unopened vial can be stored at -20°C or -70°C.