

## 32-8468: Recombinant Human Diamine Oxidase/DAO/AOC1 (C-6His)

**Gene :** AOC1  
**Gene ID :** 26  
**Uniprot ID :** P19801

### Description

Source: Human Cells.  
MW :84.4kD.

Recombinant Human Amiloride-binding protein 1 is produced by our Mammalian expression system and the target gene encoding Glu20-Val751 is expressed with a 6His tag at the C-terminus. Amiloride-sensitive amine oxidase (AOC1) belongs to the copper/topaquinone oxidase family. The protein exists as homodimer by disulfide and mainly located in placenta and kidney. AOC1 catalyzes the degradation of compounds such as putrescine, histamine, spermine, and spermidine, substances involved in allergic and immune responses, cell proliferation, tissue differentiation, tumor formation, and possibly apoptosis. Placental DAO is thought to play a role in the regulation of the female reproductive function. The activity of this protein can be inhibited by amiloride in a competitive manner. It is inhibited by amiloride, a diuretic that acts by closing epithelial sodium ion channels.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl,10% Glycerol,pH7.5.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** EPSPGTLPRKAGVFSDLNQELKAVHSFLWSKKELRQLQPSSTTTMAKNVFLIEMLLPKKYHVLRFDKGERHPV  
REARAVIFFGDQEHNVTEFAVGPLPGPCYMRALSPRPGYQSSWASRPSTAEYALLYHTLQEATKPLHQFFLNT  
TGFSFQDCHDRCLAFTDVAPRGVAVSGQRRSWLIQRYVEGYFLHPTGLELLVDHGSTDAGHWAVEQVWYNGK  
FYGSPPEELARKYADGEVDVVLEDPGKGDSTEEPPLFSSHKPRGDFPSPHVSVPRLVQPHGPRFRLEGN  
AVLYGGWSFAFRLRSSGLQVLNVHFGGERIAYEVSVQEAVALYGGHTPAGMQTKYLDVWGLGVSVELAP  
GIDCPETATFLDTFHYYDADDPVHYPRALCLFEMPTGVPLRRHFNSNFKGGFNFYAGLKGQVLVLRRTSTVYNY  
DYIWFDFIYPNGVMEAKMHATGYVHATFYTPEGLRHGTRLHHLIGNIHTLVHYRVDLVDVAGTKNSFQTLQM  
KLENITNPWSPRHRVVQPTLEQTQYSWERQAAFRFKRKLPKYLLFTSPQENPWGHKRSYRLQIHSMADQVLPP  
GWQEEQAITWARYPLAVTKYRESELCSSEIYHQNDPDPVVFQFLHNNENIENEDLVAWVTVGFLHIPHSE  
DIPNTATPGNSVGFLLRPFNFPEPDSLASRDTVIVWPRDNGPNYVQRWIPEDRDCSMPPPFYNGTYRPPVVDH  
HHHHH

### Application Note

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



Fig 1: SDS PAGE.