

# Active Recombinant Mouse Amine Oxidase, Copper Containing 3, His-tagged

**Cat. No.** Aoc3-561M    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant Mouse Aoc3protein was expressed in Spodoptera frugiperda, Sf 21 (baculovirus)-derived withan N-terminal Met, 10-His tag, and aGly-Gly-Gly-Ser-Gly-Gly-Gly-Ser-Gly-Gly-Gly-Ser-Ile-Glu-Gly-Arg linker. Gly27-Asn765.

**Species**      Mouse

**Source**      S.frugiperda

**ProteinLength**      27-765 a.a.

**Description**      Aoc3 is a copperamine oxidase with a topaquinone cofactor. Aoc3 is a type II integralmembrane protein, but a soluble form of the enzyme is present in human serum,and its level increases in diabetes and some inflammatory liver diseases.Aoc3 catalyzes the oxidative deamination of small primary amines such asmethylamine, benzylamine, and aminoacetone in a reaction that produces analdehyde, ammonia, and H2O2. The enzyme is sensitive toinhibition by semicarbazide. Aoc3 expression is highest in the endothelium oflung, heart, and intestine, but low in tissues such as brain, spleen, kidney,and liver.

**Form**      Supplied as a 0.2 µmfiltered solution in Tris and NaCl.

**N-terminalSequence**      Met

**Molecular Weight**      85 kDa

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<b>Activity</b>	Measured by its ability to produce hydrogen peroxide during the oxidation of benzylamine. This specific activity is > 10 pmoles/min/μg, as measured under the described conditions.
<b>Endotoxin Level</b>	< 1.0EU per 1 μg of the protein by the LAL method.
<b>SDS-PAGE</b>	80-90kDa, reducing conditions.
<b>Purity</b>	> 95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 μg per lane.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70°C as supplied. 3 months, -70°C under sterile conditions after opening.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Aoc3 amine oxidase, copper containing 3 [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">Aoc3</a>
<b>Synonyms</b>	Aoc3; amine oxidase, copper containing 3; SSAO; VAP1; membrane primary amine oxidase; VAP-1; copper amine oxidase; vascular adhesion protein 1; semicarbazide-sensitive amine oxidase; EC 1.4.3.21
<b>Gene ID</b>	<a href="#">11754</a>
<b>mRNA Refseq</b>	<a href="#">NM_009675</a>
<b>Protein Refseq</b>	<a href="#">NP_033805</a>

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**Chromosome  
Location**

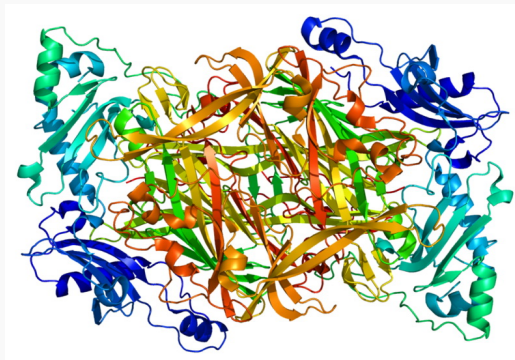
11; 11 B2-B5

**Pathway**

Glycine; Metabolic pathways; Phenylalanine metabolism; Tyrosine metabolism; beta-Alanine metabolism; beta-alanine biosynthesis I; threonine degradation III (tomethylglyoxal)

**Function**

aliphatic-amine oxidase activity; aminoacetone:oxygen oxidoreductase(deaminating) activity; calcium ion binding; cation channel activity; copper ion binding; metal ion binding; oxidoreductase activity; phenethylamine:oxygen oxidoreductase(deaminating) activity; primary amine oxidase activity; protein homodimerization activity; quinone binding; tryptamine:oxygen oxidoreductase(deaminating) activity

**PDB rendering  
based on 1pu4.**


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