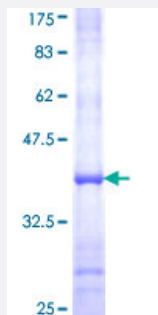


# AOC2 (Human) Recombinant Protein (Q01)

Catalog # H00000314-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human AOC2 partial ORF ( NP_033720, 169 a.a. - 268 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	RAEFTQMWRHLKEVELPKAPIFLSSTFNNGSTLAAVHATPRGLRSGDRATWMALYHNISGVGLF LHPVGLELLLDHRALDPAHWTVQQVFYLGHYADL
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	36.74
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — AOC2

Entrez GeneID [314](#)

GeneBank Accession# [NM\\_009590](#)

Protein Accession# [NP\\_033720](#)

Gene Name AOC2

Gene Alias DAO2, RAO

Gene Description amine oxidase, copper containing 2 (retina-specific)

Omim ID [602268](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** Copper amine oxidases catalyze the oxidative conversion of amines to aldehydes and ammonia in the presence of copper and quinone cofactor. This gene shows high sequence similarity to copper amine oxidases from various species ranging from bacteria to mammals. The protein contains several conserved motifs including the active site of amine oxidases and the histidine residues that likely bind copper. It may be a critical modulator of signal transmission in retina, possibly by degrading the biogenic amines dopamine, histamine, and putrescine. This gene may be a candidate gene for hereditary ocular diseases. Alternate splicing results in multiple transcript variants. [provided by RefSeq]

**Other Designations** amine oxidase, copper containing 2

## Pathway

- [beta-Alanine metabolism](#)
- [Biosynthesis of alkaloids derived from ornithine](#)

- [Glycine](#)
- [Isoquinoline alkaloid biosynthesis](#)
- [Metabolic pathways](#)
- [Phenylalanine metabolism](#)
- [Tropane](#)
- [Tyrosine metabolism](#)