

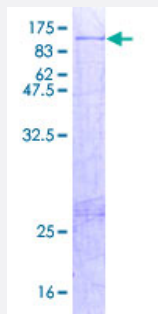
Full-Length

AOC2 (Human) Recombinant Protein (P01)

Catalog # H00000314-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human AOC2 full-length ORF (NP_033720.2, 1 a.a. - 756 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MHLKIVLAFLALSLITIFALAYVLLTSPGGSSQPPHCPSVSHRAQPWPHPGQSOLFADLSREELTA
VMRFLTQRLGPGLVDAQAQPSDNCIFSVELQLPPKAAALAHLDGRSPPPAREALAMLFGGQP
QPNVSELVVGPLPHPSYMRDVTVERHGGPLPYHRRPVLRAEFTQMWRHLKEVELPKAPIFLSST
FNYNGSTLAHVHATPRGLRSGDRATWMALYHNISGVGLFLHPVGLELLLDHRALDPAHWTVQQV
FYLGHYYADLGQLEREFKSGRLEVVRVPLPPPNGASSLRNRNSPGPLPPLQFSPQGSQYSVQGN
LVVSSLWSFTFGHGVFSGLRIFDVRFQGERIAEVSQECVSIYGADSPKTMTRYLDSSFGLGRN
SRGLVRGVDPCYQATMVDIHLVGKGAVQLLPGAVCVFEEAQGLPLRRHHNYLQNHFYGGGLASSA
LVVRSVSSVGNVDYWDVFLYPNGALEGRVHATGYINTAFLKGGEEGLLFGNRVGERVLGTVHHT
AFHFKLDLDVAGLKNWVAEDVVFKPVAAPWNPEHWLQRPQLTRQVLGKEDLTAFSLGSPLPR
YLYLASNQTNAGHQRGYRIQHSPGLGIHPILESDMERALSWGRYQLVVTQRKEEESQSSSIYHQN
DIWTPVTVFADFINNETLLGEDLVAVWTASFLHIPHAEDIPNTVTLGNRVGFLLRPNFFDEDPSIFS
PGSVYFEKGQDAGLCSINPVACLPLDLAACVPDLPPFSYHGF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

110.1

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	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_009590.2
Protein Accession#	NP_033720.2
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]
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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](#)