

Recombinant Human AOC2 protein, GST-tagged

Cat. No. AOC2-640H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human AOC2 full-length ORF (NP_033720.2, 1 a.a. - 756 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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, Jul 2008]
Molecular Mass	110.1 kDa
AA Sequence	MHLKIVLAFLALSLITIFALAYVLLTSPGGSSQPPHCPSVSHRAQPWPHPGQSQLFAD LSREELTAVMRFLTQRLGPGLVDAQAQPSDNCIFSVELQLPPKAAALAHLDRGSP PAREALAIVLFGGQPQPNVSELVVGPLPHPSYMRDVTVERHGGPLPYHRRPVLRAE FTQMWRHLKEVELPKAPIFLSSTFNNGSTLAAVHATPRGLRSGDRATWMALYHNI SGVGLFLHPVGLELLLDHRALDPAHWTVQQVFYLGHYADLGQLEREFKSGRLEV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RVPLPPPNGASSLSRNSPGPLPPLQFSPQGSQYSVQGNLVSSLWSFTFGHGVF
 SGLRIFDVRFQGERIAYEVSQECVSIYGADSPKTMTRYLDSSFGLGRNSRGLVRG
 VDCPYQATMVDIHILVGKGAVQLLPGAVCVFEEAQGLPLRRHHNYLQNHFYGGLAS
 SALVVRSVSSVGNVDYIWDVFLYPNGALEGRVHATGYINTAFKGGEEGLLFGNRV
 GERVLGTVHTHAFHFKLDDVAGLKNWVVAEDVVFKPVAAPWNPEHWLQRPQLTR
 QVLGKEDLTAFSLGSPLPRYLYLASNQTNAGHQRGYRIQIHSPGLGIHPLESDMER
 ALSWGRYQLVVTQRKEEESQSSSIYHQNDIWTPTVTFADFINNETLLGEDLVAWVTA
 SFLHIPHAEDIPNTVTLGNRVGFLLRPYNFFDEDPSIFSPGSVYFEKGDAGLCSINP
 VACLPLAACVPDLPPFSYHGF

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

AOC2 amine oxidase, copper containing 2 (retina-specific) [Homo sapiens]

Official Symbol

AOC2

Synonyms

AOC2; amine oxidase, copper containing 2 (retina-specific); retina-specific copper
 amine oxidase; DAO2; RAO; SSAO; semicarbazide-sensitive amine oxidase;

Gene ID

314

mRNA Refseq

NM_001158

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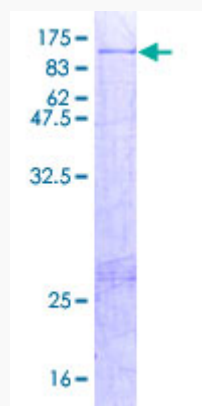
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Protein Refseq NP_001149

MIM 602268

UniProt ID O75106



12.5% SDS-PAGE Stained with Coomassie Blue.

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