

Recombinant Human AOC2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AOC2-4669H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AOC2 MS Standard C13 and N15-labeled recombinant protein (NP_033720) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	83.5 kDa
AA Sequence	MHLKIVLAFLALSLITIFALAYVLLTSPGGSSQPPHCPSVSHRAQPWPHPGQSQLFAD LSREELTAVMRFLTQRLGPGLVDAQAQPSDNCIFSVELQLPPKAAALAHLDRGSP PAREALAIVLFGGQPQPNVSELVVGPLPHPSYMRDVTVERHGGPLPYHRRPVLRAE FTQMWRHLKEVELPKAPIFLSSTFNNGSTLAAVHATPRGLRSGDRATWMALYHNI

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SGVGLFLHPVGLELLLDHRALDPAHWTVQQVFYLGHHYADLGQLEREFKSGRLEV
RVPLPPPNGASSLSRNSPGPLPLQFSPQGSQYSVQGNLVSSLWSFTFGHGVF
SGLRIFDVRFQGERIAYEVSQECVSIYGADSPKTMTRYLDSSFGLGRNSRGLVRG
VDCPYQATMVDIHLVGKGAVQLLPGAVCVFEEAQGLPLRRHHNYLQNHFYGGLAS
SALVVRSSVSGNYDIWDFVLYPNGALEGRVHATGYINTAFLKGGEEGLLFGNRV
GERVLGTVHTAHFHKLDLDVAGLKNWVVAEDVVFKPVAAPWNPEHWLQRPQLTR
QVLGKEDLTAFSLGSPLPRYLYLASNQTNAGHQRGYRIQIHSPGLIHIPLES
ALSWGRYQLVVTQRKEEESQSSSIYHQNDIWTPTVTFADFINNETLLGEDLVAVTA
SFLHIPHAEDIPNTVTLGNRVGFLRPYNFFDEDPSIFSPGSVYFEKGQDAGLCSINP
VACLPDLAACVPDLPPFSYHGFTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name AOC2 amine oxidase copper containing 2 [Homo sapiens (human)]

Official Symbol AOC2

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

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Gene ID 314

mRNA Refseq NM_009590

Protein Refseq NP_033720

MIM 602268

UniProt ID O75106

SDS-PAGE



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