

Recombinant Full Length Human AOC2 Protein, C-Flag-tagged

Cat. No. AOC2-817HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human AOC2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	83.5 kDa
AA Sequence	MHLKIVLAFLALSLITIFALAYVLLTSPGGSSQPPHCPSVSHRAQPWPHPGQSQLFAD LSREELTAVMRF LTQRLGPGGLVDAAQAQPSDNCIFSVELQLPPKAAALAHLDRGSP PPAREALAIVLFGGQPQPNVSELVVG PLPHPSYMRDVTVERHGGPLPYHRRPVLRA EFTQMWRHLKEVELPKAPIFLSSTFNNGSTLAAVHATPR GLRSGDRATWMALYH

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NISGVGLFLHPVGLELLLDHRAIDPAHWTVQQVFYLGHYADLGQLEREFKSGRL E
 VVRVPLPPPNGASSLRSRNSPGPLPPLQFSPQGSQYSVQGNLVVSSLWSFTFGHG
 VFSGLRIFDVRFQG ERIAYEVSQECVSIYGADSPKTMTRYLDSSFGLGRNSRGLV
 RGVDCPYQATMVDIHILVGKGAVQLLP GAVCVFEEAQGLPLRRHHNYLQNHFYGGL
 ASSALVRSVSSVGNIDYIWDVFLYPNGALEGRVHATGYIN TAFLKGGEEGLLFGN
 RVGERVLGTVHTHAFHFKLDLDVAGLKNWVAEDVVKPVAAPWNPEHWLQRPQL
 TRQVLGKEDLTAFSLGSPLPRYLYLASNQTNAGHQRGYRIQIHSPGLGIHIPLES
 DMERALS WGRYQLV TQRKEESQSSSIYHQNDIWTPTVTFADFINNETLLGEDLVAW
 VTASFLHIPHAEDIPNTVTLGNRVGFL
 LRPYNFFDEDPSIFSPGSVYFEKGQDAGLCSINPVACLPDLAACVPDLPPFSYHGFT
 RTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Protein Pathways	beta-Alanine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism
Full Length	Full L.

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GENE INFORMATION

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

Official Symbol AOC2

Synonyms RAO; DAO2; SSAO

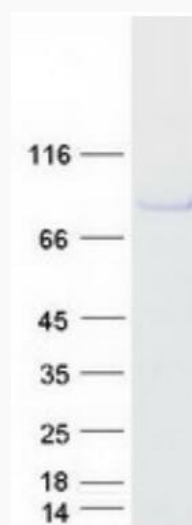
Gene ID 314

mRNA Refseq NM_009590.4

Protein Refseq NP_033720.2

MIM 602268

UniProt ID O75106



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Coomassie blue staining of purified AOC2 protein.

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