

Recombinant Full Length Human AOC2 Protein, GST-tagged

Cat. No. AOC2-1049HF **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	In Vitro Cell Free System
ProteinLength	756 amino acids
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	MHLKIVLAFL ALSLITIFAL AYVLLTSPGG SSQPPHCPSV SHRAQPWPHP GQSQFLFADLS REELTAVMRF LTQRLGPGLV DAAQAQPSDN CIFSVELQLP PKAAALAHLD RGSPPPAREA LAIVLFGGQP QPNVSELVVG PLPHPSYMRD VTVERHGGPL PYHRRPVLRA EFTQMWRHLK EVELPKAPIF LSSTFNYNYS

 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

TLAAVHATPR GLRSGDRATW MALYHNISGV GLFLHPVGLE LLLDHRALDP
 AHWTVQQVFY LGHYADLGQ LEREFKSGRL EVVRVPLPPP NGASSLRSRN
 SPGPLPPLQF SPQGSQYSVQ GNLVSSLWS FTFGHGVFSG LRIFDVRFQG
 ERIAYEVSQ ECVSIYGADS PKTMLTRYLD SSFGLGRNSR GLVRGVDCPY
 QATMVDIHL VGKGAVQLLP GAVCVFEEAQ GLPLRRHHNY LQNHFYGGLA
 SSALVRSVS SVGNFYDIWD FVLYPNGALE GRVHATGYIN TAFLKGGEEG
 LLFGNRVGER VLGTVHTHAF HFKLDLDVAG LKNWVVAEDV VFKPVAAPWN
 PEHWLQRPQL TRQVLGKEDL TAFSLGSPLP RYLYLASNQT NAWGHQRGYR
 IQIHSPLGIH IPLESDMERA LSWGRYQLVV TQRKEEESQS SSIYHQNDIW
 TPTVTFADFI NNETLLGEDL VAWVTASFLH IPHAEDIPNT VTLGNRVGFL
 LRPYNFFDED PSIFSPGSVY FEKGQDAGLC SINPVACLPD LAACVPDLPP
 FSYHGF

Applications

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

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

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mRNA Refseq	NM_001158
Protein Refseq	NP_001149
MIM	602268
UniProt ID	O75106

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