Recombinant Human Retina-specific copper amine oxidase (AOC2)

Product Code	CSB-YP001854HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O75106
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	QPPHCPSV SHRAQPWPHP GQSQLFADLS REELTAVMRF LTQRLGPGLV DAAQAQPSDN CIFSVELQLP PKAAALAHLD RGSPPPAREA LAIVLFGGQP QPNVSELVVG PLPHPSYMRD VTVERHGGPL PYHRRPVLRA EFTQMWRHLK EVELPKAPIF LSSTFNYNGS TLAAVHATPR GLRSGDRATW MALYHNISGV GLFLHPVGLE LLLDHRALDP AHWTVQQVFY LGHYYADLGQ LEREFKSGRL EVVRVPLPPP NGASSLRSRN SPGPLPPLQF SPQGSQYSVQ GNLVVSSLWS FTFGHGVFSG LRIFDVRFQG ERIAYEVSVQ ECVSIYGADS PKTMLTRYLD SSFGLGRNSR GLVRGVDCPY QATMVDIHIL VGKGAVQLLP GAVCVFEEAQ GLPLRRHHNY LQNHFYGGLA SSALVVRSVS SVGNYDYIWD 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
Source	Yeast
Target Names	AOC2
Protein Names	Recommended name: Retina-specific copper amine oxidase Short name= RAO EC= 1.4.3.21 Alternative name(s): Amine oxidase [copper-containing] Semicarbazide-sensitive amine oxidase Short name= SSAO
Expression Region	33-756
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.