



Recombinant Human Retina-specific copper amine oxidase (AOC2)

| | |
|--------------------------|--|
| Product Code | CSB-EP001854HU |
| 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 | <p>QPPHCPSV SHRAQPWPHP GQSQLFADLS REELTAVMRF LTQRLGPGLV DAAQAQPSDN CIFSVELQLP PKAAALHLD RGSPPPAREA LAIVLFGGQP QPNVSELVVG PLPHPSYMRD VTERHGGPL PYHRRPVLRA EFTQMWRHLK EVELPKAPIF LSSTFNINGS TLAHVHATPR GLRSGDRATW MALYHNISGV GLFLHPVGLE LLLDHRALDP AHWTVQQVFY LGHYADLGQ LEREFKSGRL EVVRVPLPPP NGASSLRSRN SPGPLPPLQF SPQGSQYSVQ GNLVSSSLWS FTFGHGVFSG LRIFDVRFQG ERIAYEVSQ ECVSIYGADS PKTMLTRYLD SSFGLGRNSR GLVRGVDCPY QATMVDIHIL VGKGAVQLLP GAVCVFEEAQ GLPLRRHHNY LQNHFYGGLA SSALVRSVS SVGNYDIWD FVLYPNGALE GRVHATGYIN TAFLKGEEG 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</p> |
| Source | E.coli |
| 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.