# Recombinant Human Quinone oxidoreductase (CRYZ)

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| **Product Code** | CSB-YP600843HU |
| **Abbreviation** | CRYZ |
| **Storage** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>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. |
| **Uniprot No.** | Q08257 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | >85% (SDS-PAGE) |
| **Sequence** | ATGQKLMRA VRVFEFGGPE VLKLRSDIAV PIPKDHQVLI KVHACGVNPV ETYIRSGTYS RKPLLPYTPG SDVAGVIEAV GDNASAFKKG DRVFTSSTIS GGYAEYALAA DHTVYKLPEK LDFKQGAAIG IPYFTAYRAL IHSACVKAGE SVLVHGASGG VGLAACQIAR AYGLKILGTA GTEEGQKIVL QNGAHEVFNH REVNYIDKIK KYVGEKGIDI IIEMLANVNL SKDLSLLSHG GRVIVVGSRG TIEINPRDTM AKESSIIGVT LFSSTKEEFQ QYAAALQAGM EIGWLKPVIG SQYPLEKVAE AHENIIHGSG ATGKMILLL |
| **Source** | Yeast |
| **Target Names** | CRYZ |
| **Protein Names** | Recommended name: Quinone oxidoreductase EC= 1.6.5.5 Alternative name(s): NADPH:quinone reductase Zeta-crystallin |
| **Expression Region** | 2-329 |
| **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** | Crystallins are separated into two classes: taxon-specific, or enzyme, and ubiquitous. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. The former class is also called phylogenetically-restricted crystallins. This gene encodes a taxon-specific crystallin protein which has NADPH-dependent quinone reductase activity distinct from other known quinone reductases. It lacks alcohol dehydrogenase activity although by similarity it is considered a member of the zinc-containing alcohol dehydrogenase family. Unlike other mammalian species, in humans, lens expression is low. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. One pseudogene is known to exist. |

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| **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.<br>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. |