Quinone Oxidoreductase (CRYZ) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Quinone oxidoreductase (CRYZ), Recombinant Protein
Full Product Name	Recombinant Human Quinone oxidoreductase (CRYZ)
Product Gene Name	CRYZ recombinant protein
Product Synonym Gene Name	CRYZ
Sequence	ATGQKLMRAV RVFEFGGPEV LKLRSDIAVP IPKDHQVLIK VHACGVNPVE TYIRSGTYSR KPLLPYTPGS DVAGVIEAVG DNASAFKKGD RVFTSSTISG GYAEYALAAD HTVYKLPEKL DFKQGAAIGI PYFTAYRALI HSACVKAGES VLVHGASGGV GLAACQIARA YGLKILGTAG TEEGQKIVLQ NGAHEVFNHR EVNYIDKIKK YVGEKGIDII IEMLANVNLS KDLSLLSHGG RVIVVGSRGT IEINPRDTMA KESSIIGVTL FSSTKEEFQQ YAAALQAGME IGWLKPVIGS QYPLEKVAEA HENIIHGSGA TGKMILLL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	31,528 Da
Sequence Positions	2-329, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	123691
3D Structure	ModBase 3D Structure for Q08257
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CRYZ recombinant protein	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.
Other Notes	Small volumes of CRYZ recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CRYZ purchase	MBS1468214 is a recombinant protein targeting CRYZ. Also known as Recombinant Human Quinone oxidoreductase (CRYZ). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRYZ. It may not necessarily be applicable to this product.

NCBI GI #	194239674
NCBI GeneID	1429
NCBI Accession #	NP_001123514.1
UniProt Primary Accession #	Q08257
UniProt Secondary Accession #	Q53FT0; Q59EU7; Q5HYE7; Q6NSK9; A6NN60; D3DQ76
UniProt Related Accession #	Q08257
GenBank Nucleotide #	NM_001130042.1
NCBI Official Full Name	quinone oxidoreductase isoform a
NCBI Official Synonym Full Names	crystallin zeta
NCBI Official Symbol	CRYZ
UniProt Protein Name	Quinone oxidoreductase
UniProt Synonym Protein Names	NADPH:quinone reductase; Zeta-crystallin
Protein Family	Zeta-crystallin
UniProt Gene Name	CRYZ
NCBI Protein Information	quinone oxidoreductase
UniProt Comments for CRYZ	Does not have alcohol dehydrogenase activity. Binds NADP and acts through a one-electron transfer process. Orthoquinones, such as 1,2-naphthoquinone or 9,10-phenanthrenequinone, are the best substrates (in vitro). May act in the detoxification of xenobiotics. Interacts with (AU)-rich elements (ARE) in the 3'-UTR of target mRNA species. Enhances the stability of mRNA coding for BCL2. NADPH binding interferes with mRNA binding.
Research Articles on CRYZ	**1.** Our results suggest that genetic variants in TYW3/CRYZ and NDST4 loci may be involved in the regulation of circulating resistin levels
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/quinone-oxidoreductase-cryz/1468214