

CRYZ recombinant protein

CRYZ, 1-329aa, Human, His tag, E Coli

CATALOG # AAA48865	HOST E Coli	APPLICATIONS SDS-Page
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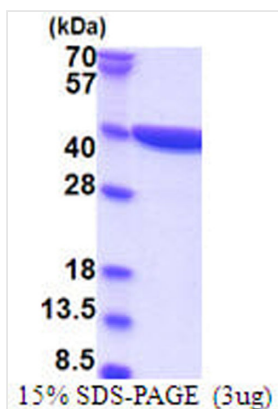
PRODUCT SYNONYMS

CRYZ; 1-329aa; Human; His tag; E Coli; Quinone oxidoreductase isoform a; Crystallin; zeta (quinone reductase); CRYZ recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMATGQKL MRAVRVFEFG GPEVLKLRSD IAVPIPKDHQ VLIKVHACGV NPVETYIRSG TYSRKPLLPY TPGSDVAGVI EAVGDNASAF KKGDRVFTSS TISGGYAEYA LAADHTVYKL PEKLDFKQGA AIGIPYFTAY RALHSACVK AGESVLVHGA SGGVGLAACQ IARAYGLKIL GTAGTEEGQK IVLQNGAHEV FNHREVNYID KIKKYVGEKG IDIIIEMLAN VNLSKDLSLL SHGGRVIVVG SRGTIEINPR DTMAKESSII GVTLSSTKE EFQYAAALQ AGMEIGWLKP VIGSQYPLEK VAEAHENIIH GSGATGKMIL LL
Sequence Length	329
Applicable Applications for CRYZ recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

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. Recombinant human CRYZ protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for CRYZ recombinant protein	Neuroscience
References	Porte S., Valencia E., et al. (2009) J. Biol. Chem. 284:17194-17205

NCBI AND UNIPROT INFORMATION

NCBI GI #	194239674
NCBI GeneID	1429
NCBI Accession #	NP_001123514
NCBI GenBank Nucleotide #	NM_001130042.1
UniProt Accession #	Q08257; Q53FT0; Q59EU7; Q5HYE7; Q6NSK9; A6NN60; D3DQ76
Molecular Weight	37.6 kDa (352aa) confirmed by MALDI-TOF
NCBI Official Full Name	quinone oxidoreductase isoform a
NCBI Official Synonym Full Names	crystallin zeta
NCBI Official Symbol	CRYZ
NCBI Protein Information	quinone oxidoreductase
UniProt Protein Name	Quinone oxidoreductase
UniProt Gene Name	CRYZ

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.