

## Recombinant Human CRYZ, His-tagged

Cat. No. CRYZ-257H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	CRYZ, 1-329aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-329aa
<b>Description</b>	<p>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.</p> <p>Recombinant human CRYZ protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
<b>Molecular Mass</b>	37.6 kDa (352aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSSLVPRGSH MGSMATGQKL MRAVRVFEEFG GPEVLKLRSD

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IAVPIPKDHQ VLIKVHACGV NPVETYIRSG TYSRKPLL PY TPGSDVAGVI  
 EAVGDNASAF KKGDRVFTSS TISGGYAEYA LAADHTVYKL PEKLDKQGA  
 AIGIPYFTAY RALIHSACVK AGESVLVHGA SGGVGLAACQ IARAYGLKIL  
 GTAGTEEGQK IVLQNGAHEV FNHREVNID KIKKYVGEKG IDIIIEMLAN  
 VNLSKDLSLL SHGGRVIVVG SRGTIEINPR DTMAKESSII GVTLFSSTKE  
 EFQQYAAALQ AGMEIGWLKP VIGSQYPLEK VAEAHENIIH GSGATGKMIL LL

<b>Purity</b>	>95% by SDS - PAGE
<b>Storage</b>	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	CRYZ crystallin, zeta (quinone reductase) [ Homo sapiens ]
<b>Official Symbol</b>	CRYZ
<b>Synonyms</b>	CRYZ; crystallin, zeta (quinone reductase); quinone oxidoreductase; NADPH:quinone reductase; FLJ41475; DKFZp779E0834;
<b>Gene ID</b>	1429
<b>mRNA Refseq</b>	NM_001130042
<b>Protein Refseq</b>	NP_001123514
<b>MIM</b>	123691

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<b>UniProt ID</b>	Q08257
<b>Chromosome Location</b>	1p31-p22
<b>Function</b>	NOT NADH binding; NADPH binding; NADPH:quinone reductase activity; RNA binding; mRNA 3-UTR binding; nucleotide binding; oxidoreductase activity; zinc ion binding;

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