

Recombinant Human CRYZ, His-tagged

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

SPECIFICATION

Product Overview	CRYZ, 1-329aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-329aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	37.6 kDa (352aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMATGQKL MRAVRVFEFG GPEVLKLRSD

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

Purity >95% by SDS - PAGE

Storage 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.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CRYZ crystallin, zeta (quinone reductase) [Homo sapiens]

Official Symbol CRYZ

Synonyms CRYZ; crystallin, zeta (quinone reductase); quinone oxidoreductase; NADPH:quinone reductase; FLJ41475; DKFZp779E0834;

Gene ID 1429

mRNA Refseq NM_001130042

Protein Refseq NP_001123514

MIM 123691

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UniProt ID	Q08257
Chromosome Location	1p31-p22
Function	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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