

Recombinant Full Length Human CRYZ Protein, GST-tagged

Cat. No. CRYZ-2145HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CRYZ full-length ORF (NP_001880.2, 1 a.a. - 329 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	329 amino acids
Description	<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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. One pseudogene is known to exist. [provided by RefSeq, Sep 2008]</p>
Molecular Mass	61.6 kDa
AA Sequence	<p>MATGQKLMRAVRVFEFGGPEVLKLRSDIAVPIPKDHQVLIKVHACGVNPNVETYIRSG TYSRKPLLPTYTPGSDVAGVIEAVGDNASAFKKGDRVFTSSTISGGYAEYALAADHTV YKLPEKLDLFKQGAAGIPYFTAYRALIHSACVKAGESVLVHGASGGVGLAACQIARAY</p>

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GLKILGTAGTEEGQKIVLQNGAHEVFNHREVNYIDKIKKYVGEKGDIIIEMLANVNLSK
 DLSLLSHGGRVIVVGSRGTIEINPRDTMAKESSIIGVTLFSSTKEEFQQYAAALQAGM
 EIGWLKPVIGSQYPLEKVAEAHENIIHGSGATGKMILL

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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