

Recombinant Full Length Human CRYGS Protein, GST-tagged

Cat. No. CRYGS-2142HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CRYGS full-length ORF (NP_060011.1, 1 a.a. - 178 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	178 amino acids
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. Since lens central fiber cells lose their nuclei during development, these crystallins are made and then retained throughout life, making them extremely stable proteins. Mammalian lens crystallins are divided into alpha, beta, and gamma families; beta and gamma crystallins are also considered as a superfamily. Alpha and beta families are further divided into acidic and basic groups. Seven protein regions exist in crystallins: four homologous motifs, a connecting peptide, and N- and C-terminal extensions. Gamma-crystallins are a homogeneous group of highly symmetrical, monomeric proteins typically lacking connecting peptides and terminal extensions. They are differentially regulated after early development. This gene encodes a protein initially considered to be a beta-crystallin but the encoded protein is monomeric and has greater sequence similarity to other gamma-crystallins. This gene encodes the most significant gamma-crystallin in adult eye lens tissue. Whether due to aging or mutations in specific genes, gamma-

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

crystallins have been involved in cataract formation. [provided by RefSeq, Jul 2008]

Molecular Mass 47.4 kDa

AA Sequence MSKTGKITFYEDKNFQGRRYDCDCDCADFHTYLSRCNSIKVEGGTWAVYERPNA
GYMYILPQGEYPEYQRWMGLNDRLLSSCRAVHLPSGGQYKIQIFEKGDFSGQMYET
TEDCPSIMEQFHMREIHSCKVLEGVWIFYELPNYRGRQYLLDKKEYRKPIDWGAASP
AVQSFRRIVE

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 CRYGS crystallin, gamma S [Homo sapiens]

Official Symbol CRYGS

Synonyms CRYGS; crystallin, gamma S; CRYG8; beta-crystallin S; crystallin; gamma 8; gamma-S-crystallin; gamma-crystallin S; crystallin, gamma 8

Gene ID 1427

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mRNA Refseq	NM_017541
Protein Refseq	NP_060011
MIM	123730
UniProt ID	P22914

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