Recombinant Human CRYGS, His-tagged

Cat. No. CRYGS-3632H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CRYGS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-178 aa).
Species	Human
Source	Human
Description	Crystallins are water soluble structural proteins found in the vertebrate eye. Mammalian crystallins are classified in three forms, designated alplha, beta and gamma. Crystallins, as the principal components of the lens, function to increase the refractive index of the eye during accommodation by forming high-molecular weight aggregates which maintain transparency. CRYGS, also known as beta-crystallin S, is exists as a monomer which does not aggregate. This gene encodes the most significant gamma-crystallin in adult eye lens tissue. Whether due to aging or mutations in specific genes, gamma-crystallins have been involved in cataract formation.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.
Molecular Weight	23.6 kDa (202aa), confirmed by MALDI-TOF
Purity	> 95 % by SDS - PAGE
Concentration	1 mg/ml (determined by BCA)

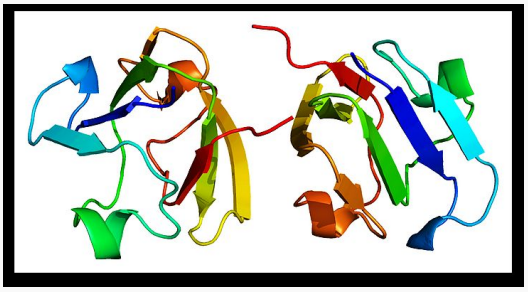
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSHMSKTGT KITFYEDKNF QGRRYDCDCD CADFHTYLSR CNSIKVEGGT WAVYERPNFA GYMYILPQGE YPEYQRWMGL NDRLSSCRAV HLPSGGQYKI QIFEKGDFSG QMYETTEDCP SIMEQFHMRE IHSCKVLEGV WIFYELPNYR GRQYLLDKKE YRKPIDWGAA SPAVQSFRRI VE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	CRYGS crystallin, gamma S [Homo sapiens]
Official Symbol	CRYGS
Synonyms	CRYGS; CRYG8; GRYG8; crystallin, gamma S; beta-crystallin S; OTTHUMP00000210173; OTTHUMP00000210174; gamma-S-crystallin; gamma-crystallin S; crystallin, gamma 8
Gene ID	1427
mRNA Refseq	NM_017541
Protein Refseq	NP_060011
MIM	123730
UniProt ID	P22914
Chromosome Location	3q25-qter

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Function	structural constituent of eye lens
PDB rendering based on 1a7h.	

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