

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 alpha, 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)

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Sequences of amino acids

MGSSHHHHHH SSGLVPRGSH MGSMSKTGT KITFYEDKNF QGRRYDCDCD
 CADFHTYLSR CNSIKVEGGT WAVYERPNA GYMYLPQGE YPEYQRWMGL
 NDRLLSSCRAV HLPSSGGQYKI QIFEKGFSG QMYETTEDCP SIMEQFHMRE
 IHCKVLEGV WIFYELPNYR GRQYLLDKKE YRKPIDWGAA SPAVQSFRI 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

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