Recombinant human Crystallin gamma S/CRYGS protein

Catalog Number: ATGP1205

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-178aa

UniProt No.
P22914

NCBI Accession No.
NP_060011

Alternative Names
Beta-crystallin S, CRYG8, Gamma-crystallin S, Gamma-S-crystallin

PRODUCT SPECIFICATION

Molecular Weight
23.6 kDa (202aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant

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human CRYGS protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

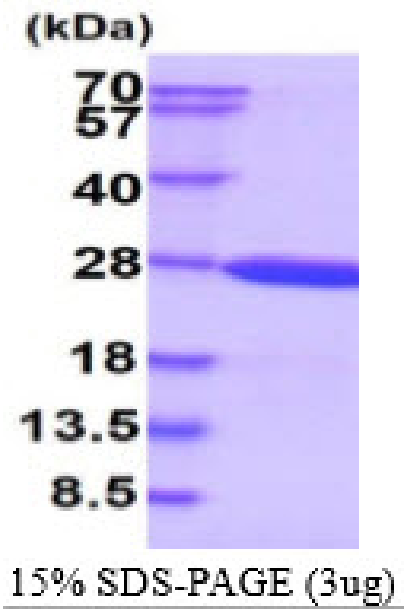
MGSSHHHHHH SSGLVPRGSH MGSHMSKTGT KITFYEDKNF QGRRYDCDCD CADFHTYLSR CNSIKVEGGT WAVYERPNFA GYMYILPQGE YPEYQRWMGL NDRLSSCRAV HLPSGGQYKI QIFEKGDFSG QMYETTEDCP SIMEQFHMRE IHSCKVLEGV WIFYELPNYR GRQYLLDKKE YRKPIDWGAA SPAVQSFRRI VE

General References

Sun H., et al. (2005) J Med Genet. 42(9):706-10.
Jester JV., et al. (2008) Semin Cell Dev Biol. 19(2):82-93.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.