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Recombinant Human Crystallin, Gamma S

CLPRO963
CLPRO963-2
CLPRO963-3

Introduction: Mammalian crystallins which are water soluble structural proteins located in the vertebrate eye are classified in three forms, labeled alpha, beta and gamma. Crystallins, the primary components of the lens, raise the refractive index of the eye all through the accommodation by creating high-molecular weight aggregates that maintain transparency. CRYGS is a monomer that does not aggregate. CRYGS encodes the most substantial gamma-crystallin in adult eye lens tissue. Gamma-crystallins has a part in cataract formation due to aging or mutations in specific genes.

Description: CRYGS Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 202 amino acids (1-178) and having a molecular mass of 23.6 kDa. The CRYGS is fused to a 24 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Synonyms: Crystallin gamma S, Gamma-crystallin S, CRYG8, crystallin, gamma 8, Beta-crystallin S.

Source: *Escherichia Coli*.

Presentation: 5 µg (**CLPRO963**), 25 µg (**CLPRO963-2**), or 1 mg (**CLPRO963-3**), Sterile Filtered colorless solution. The CRYGS solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.

Stability: Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Avoid multiple freeze-thaw cycles.**

Purity: Greater than 95% as determined by SDS-PAGE.

Amino Acid Sequence: MGSSHHHHHH SGLVPRGSH MGSMSKTGT KITFYEDKNF QGRRYDCDCD
CADFHTYLSR CNSIKVEGGT WAVYERPNA GYMYILPQGE YPEYQRWMGL NDLSSCRV
HLPSSGGQYKI QIFEKGFDFSG QMYETTEDCP SIMEQFHMRE IHCKVLEGV WIFYELPNYR
GRQYLLDKKE YRKPIDWGAA SPAVQSFRR VE

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