
Product Data Sheet

Product Name: CRYGS Human
 Cat. No.: GP23242
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Crystallin gamma S; Gamma-crystallin S; CRYG8; crystallin; gamma 8; Beta-crystallin S.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSKTGT KITFYEDKNF QGRRYDCDCD CADFHTYLSR CNSIKVEGGT WAVYERPNFA GYMYILPQGE YPEYQRWMGL NDRLSSCRAV HLPSSGGQYKI QIFEKGFSG QMYETTEDCP SIMEQFHMRE IHCKVLEGV WIFYELPNYR GRQYLLDKKE YRKPIDWGAA SPAVQSFRRRI VE		
Formulation	The CRYGS solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.		

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,

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.

Background

CRYGS Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

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