
Product Data Sheet

Product Name: CRYBB1 Human
 Cat. No.: GP25060
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 1.17.4.1; RR2M; Beta-B1 crystallin; CATCN3.		
Amino Acid Sequence	MSQAAKASAS ATVAVNPGPD TKGKGAPPAG TSPSPGTTLA PTTVPITSAK AAELPPGNYR LVVFELENFQ GRRAEFSGEC SNLADRGFDR VRSIIVSAGP WVAFEQSNFR GEMFILEKGE YPRWNTWSSS YRSDRLMSFR PIKMDAQEHK ISLFEGANFK GNTIEIQGDD APSLWVYGFS DRVGSVKVSS GTWVGYQYPG YRGYQYLLEP GDFRHWNEWG AFQPQMQLR RLRDKQWHLE GSFPVLATEP PKRSHHHHHH.		
Formulation	The CRYBB1 solution (1mg/ml) contains 20mM Tris-HCl pH-8, 1mM DTT & 10% glycerol.		

Introduction

Crystallins are the main structural proteins of the vertebrate eye lens, where they maintain the transparency and refractive index of the lens. Crystallins are divided into 3 protein families, α , γ , & β families. Because lens central fiber cells lose their nuclei during development, these crystallins are prepared and then retained throughout life, making them extremely stable proteins. CRYBB1 is a beta basic group member and undergoes extensive cleavage at its N-terminal extension during lens maturation.

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

CRYBB1 Recombinant Human produced in E.Coli is a single, non-glycosylated

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

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polypeptide chain containing 260 amino acids (1-252 a.a.) and having a molecular mass of 29.1 kDa. The CRYBB1 is fused to an 8 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

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