

Recombinant Human Crystallin, Beta B1, His-tagged

Cat. No. CRYBB1-2495H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CRYBB1 protein, fused to His-tag at C-terminus was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 29.1 kDa (260aa).
Species	Human
Source	E.coli
Description	Crystallins are the major structural proteins of the vertebrate eye lens, where they maintain the transparency and refractive index of the lens. Crystallins are divided into α , β , and γ families. Since lens central fiber cells lose their nuclei during development, these crystallins are made 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT.
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MSQAAKASAS ATVAVNPGPD TKGKGAPPAG TSPSPGTTLA PTTVPITSAK AAELPPGNYR LVVFELENFQ GRRAEFSGEC SNLADRGFDR VRSIIVSAGP WVAFEQSNFR GEMFILEKGE YPRWNTWSSS YRSDRLMSFR PIKMDAQEHK ISLFEGANFK GNTIEIQGDD APSLWVYGFS DRVGSVKVSS GTWVG YQYPG

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YRGYQYLLEP GDFRHWNEWG AFQPQMQLR RLRDKQWHLE GSFPVLATEP
PKRSHHHHHH.

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

CRYBB1 crystallin, beta B1 [Homo sapiens]

Synonyms

crystallin, beta B1; CATCN3; CRYBB1; beta-crystallin B1; beta-B1 crystallin; eye lens structural protein; Beta-B1 crystallin

Gene ID

1414

mRNA Refseq

NM_001887

Protein Refseq

NP_001878

MIM

600929

UniProt ID

P53674

**Chromosome
Location**

22q11.2; 22q12.1

Function

structural constituent of eye lens

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