

Recombinant Human Crystallin Alpha B

Cat. No. CRYAB-310H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CRYA2 protein expressed in E.coli encodes 175 (1-175) amino acids and has a molecular mass of 20.1 kDa.
Species	Human
Source	E.coli
ProteinLength	1-175 a.a.
Description	Alpha crystallins are composed of two gene products; alpha-A and alpha-B, for acidic and basic, respectively. Alpha crystallins can be induced by heat shock and are members of the small heat shock protein(sHSP also known as the HSP20). They act as molecular chaperones and hold them in large soluble aggregates. These heterogeneous aggregates consist of 30-40 subunits; the alpha-A and alpha-B subunits have a 3:1 ratio, respectively. Two additional function of alpha-crystallins are an autokinase activity and participation in the intracellular architecture. Alpha-B is expressed widely in many tissues and organs and occurs in many neurological diseases.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 50 mM NaCl, 1 mM EDTA.
Molecular Weight	20.1 kDa (175aa).
Purity	> 95% by SDS – PAGE.

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Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MDIAIHHPWI RRPFFPFHSP SRLFDQFFGE HLLESDLFPT STSLSPFYLR PPSFLRAPSW FDTGLSEMRL EKDRFSVNLK VKHFSPEELK VKVLGDVIEV HGKHEERQDE HGFISREFHR KYRIPADVDP LTITSSLSSD GVLTVNGPRK QVSGPERTIP ITREEKPAVT AAPKK
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	CRYAB
Synonyms	CRYAB; crystallin, alpha B; CRYA2; CTPP2; HSPB5; HspB5; Alpha(B)-crystallin; alpha B crystallin; Heat shock protein beta-5; Renal carcinoma antigen NY-REN-27; Rosenthal fiber component; alpha crystallin B chain; heat-shock 20 kD like-protein.
Gene ID	1410
mRNA Refseq	NM_001885.1
Protein Refseq	NP_001876.1
MIM	123590
UniProt ID	P02511
Chromosome Location	11q22.3-q23.1

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Function

structural constituent of eye lens; unfolded protein binding.

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