

Recombinant Human CRYAB protein

Cat. No. CRYAB-9158H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CRYAB(1-175 aa) was expressed in E. coli.
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 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.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 50mM NaCl, 1mM EDTA
Molecular Mass	20.1kDa (175aa)
AA Sequence	MDIAIHHPWI RRPFFPFHSP SRLFDQFFGE HLLESDLFPT STSLSPFYLR PPSFLRAPSW FDTGLSEMRL EKDRFSVNLD VKHFSPEELK VKVLGDVIEV HGKHEERQDE HGFISREFHR KYRIPADVDP LTITSSLSSD GVLTVNGPRK

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QVSGPERTIP ITREEKPAVT AAPKK

Purity > 95% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CRYAB crystallin, alpha B [Homo sapiens]

Official Symbol CRYAB

Synonyms CRYAB; crystallin, alpha B; CRYA2; alpha-crystallin B chain; HSPB5; heat shock protein beta-5; rosenthal fiber component; heat-shock 20 kD like-protein; renal carcinoma antigen NY-REN-27; CTPP2;

Gene ID 1410

mRNA Refseq NM_001885

Protein Refseq NP_001876

MIM 123590

UniProt ID P02511

Chromosome Location 11q22.3-q23.1

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Pathway	Protein processing in endoplasmic reticulum, organism-specific biosystem; Protein processing in endoplasmic reticulum, conserved biosystem;
Function	protein binding; protein homodimerization activity; structural constituent of eye lens; unfolded protein binding;

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