

# Product information

## Crystallin alpha B, 1-175 aa

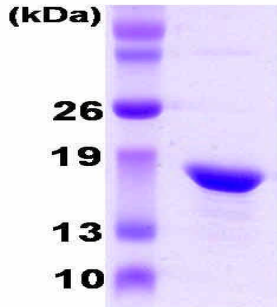
Human, Recombinant, *E.coli*

Cat. No. IBCRA3002

**Synonyms:** CRYA2, HSPB5

**NCBI Accession No.:** NP\_001876

**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.

<p><b>Form:</b> Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 50 mM NaCl, 1 mM EDTA</p> <p><b>Molecular Weight:</b> 20.1kDa (175aa)</p> <p><b>Purity:</b> &gt; 95% by SDS - PAGE</p> <p><b>Concentration:</b> 1 mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b></p> <p>MDIAIHHPW I RRPFFPFHSP SRLFDQFFGE HLLSDLFPT STLSPPFYLR PPSFLRAPSW FDTGLSEMRL EKDRFSVNLD VKHFSPEELK VKVLGDVIEV HGKHEERQDE HGFISREFHR KYRIPADVDP LTITSSLSSD GVLTVNGPRK QVSGPERTIP ITREEKPAVT AAPKK</p>	

### General references:

Hasan, A., *et al.* (2002) *Biochemistry* **41**(52) 15876-15882

Kamradt, M.C., *et al.* (2002) *J. Biol. Chem.* **277**(41) 38731-38736

Reddy, G.B., *et al.* (2002) *FEBS lett.* **522**(1-3) 59-64

Ito, H., *et al.* (2002) *J. Biochem.* **131**(4) 593-603

**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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.