

## CRYAB

### Recombinant Human Crystallin Alpha B

<b>Catalog No.</b>	CRC168A	<b>Quantity:</b>	20 µg
	CRC168B		100 µg
	CRC168C		1.0 mg

**Alternate Names:** CRYA2, CTPP2, HSPB5, Crystallin Alpha B, CRYAB.

**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 have autokinase activity and participate in intracellular architecture. Alpha-B is expressed widely in many tissues and organs and occurs in many neurological diseases. Recombinant human Crystallin Alpha B is a single, non-glycosylated polypeptide chain containing 175 amino acids and purified by proprietary chromatographic techniques.

**Concentration:** 1 mg/ml

**Gene ID:** 1410

**Source:** *E. coli*

**Molecular Weight:** 20.16 kDa

**Formulation:** Sterile filtered liquid in 20 mM Tris-HCl, pH 7.5, + 50 mM NaCl + 1 mM EDTA

**Purity:** > 95% as determined by RP-HPLC and SDS-PAGE analyses

**Endotoxin Level:** < 0.1 ng/µg of CRYAB

**Amino Acid Sequence:** MDIAIHHPWI RRPFFPFHSP SRLFDQFFGE HLLESDLFPT STSLSPFYLR  
PPSFLRAPSW FDTGLSEMRL EKDRFSVNLD VKHFSPEELK VKVLGDVIEV  
HGKHEERQDE HGFISREFHR KYRIPADVDP LTITSSLSSD GVLTVNGPRK  
QVSGPERTIP ITREEKPAVT AAPKK

**Storage & Stability:** Store at 2-4°C for up to 4 weeks or in working aliquots at -20°C for longer storage. Add a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. **Avoid repeated freeze-thaw cycles.**

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