

Product Data Sheet

Cat # RP-612

Recombinant Human Crystallin Alpha B

Size:  20 ug

100 ug

**Synonyms:**

CRYA2, CTPP2, HSPB5.

**Introduction:**

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 a-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.

**Description:**

Recombinant CRYAB produced in E.Coli is a single,non-glycosylated polypeptide chain containing 175amino acids and having a molecular mass of 20,159 Dalton.

CRYAB is purified by proprietary chromatographic techniques.

**Source:**

Escherichia Coli.

**Physical Appearance:**

Sterile filtered colorless solution.

**Formulation:**

The CRYAB protein (1mg/ml) solution contains 20mM Tris-HCl buffer pH-7.5, 50mM NaCl and 1mM EDTA.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Purity:**

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

**Sequence:**

MDIAIHHPWI RRPFFPFHSP SRLFDQFFGE HLLSDFPT STLSFPYLR PPSFLRAPSFWDTGLSEMRL EKDRFSVNLK VKHFSPEELK VKVLGDVIEV HGKHEERQDE HGFISREFHRKYRIPADVDP LTITSSLSSD GVLTVNGPRK QVSGPERTIP ITREEKPAVT AAPKK

**Usage:**

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage..Rev.

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