

## 32-7103: Recombinant Human $\alpha$ B Crystallin Chain/CRYAB (C-6His)

**Gene :** CRYAB  
**Gene ID :** 1410  
**Uniprot ID :** P02511

### Description

Source: E.coli.  
MW :21.22kD.

Recombinant Human CRYAB is produced by our E.coli expression system and the target gene encoding Met1-Lys175 is expressed with a 6His tag at the C-terminus.  $\alpha$  Crystallin B Chain (CRYAB) is a cytoplasmic protein that belongs to the small heat shock protein (HSP20) family.  $\alpha$  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) family.  $\alpha$  crystallins acts as molecular chaperones and hold them in in large soluble aggregates. CRYAB is expressed widely in many tissues and organs. It may contribute to the transparency and refractive index of the lens. The deficiency of CRYAB is the cause of myopathy myofibrillar type 2 (MFM2) and cataract posterior polar type 2 (CTPP2).

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g  
**Content :** Lyophilized from a 0.2  $\mu$ m filtered solution of 20mM PB, 150mM NaCl, pH 7.2.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** MDIAIHHPWIRRPFFPFHSPSRLFDQFFGEHLLESDFPTSTSLSPFYLRPPSFLRAPSWFDTGLSEMRLEKDRFS  
VNLDVKHFSPEELKVKVLGDVIEVHGKHEERQDEHGFISREFHRKYRIPADVPLTITSSLSDDGVLTVNGPRKQ  
VSGPERTIPITREEKPAVTAAPKKLEHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.