

Recombinant Human CRYAB

Catalog No: C118

Description	Recombinant Human Crystalline alpha -B chain 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.
Source	E.coli
Alternative name	Alpha-Crystallin B Chain; Alpha(B)-Crystallin; Heat Shock Protein Beta-5; HspB5; Renal Carcinoma Antigen NY-REN-27; Rosenthal Fiber Component; CRYAB; CRYA2
Accession No.	P02511
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg).
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	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 Sequence	MDIAIHHPWIRRPFFPFHSPSRLFDQFFGEHLLESDFPTSTSLSPFYLRPPSFLRAPSWFDTGLSEM RLEKDRFSVNLDVKHFSPE ELKVKVLGDVIEVHGKHEERQDEHGFISREFHRKYRIPADVDPLTITSSLSSDGVLTVNGPRKQVSGP ERTIPITREEKPAVTAAPK KLEHHHHHHH
Background	α 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).

SDS-PAGE

