

Product information

Crystallin alpha B, 1-175 aa

Mouse, Recombinant, *E.coli*

Cat. No. IBCRB0801

Synonyms: Crya2, Crya-2, Cryab

NCBI Accession No.: NP_034094

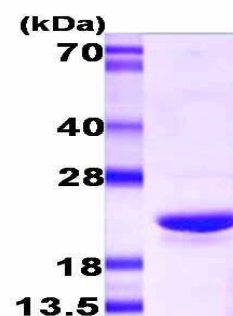
Description: Alpha crystallins are composed of two gene products, alpha-A and alpha-B for acidic and basic, respectively. Alpha crystallins can be induced by heat shock and are members of the small heat shock protein (sHSP also known as the HSP20). They act as molecular chaperones and hold them in large 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 functions of α -crystallins are an autokinase activity and participation in the intracellular architecture. CRYAB is expressed widely in many tissues and organs. Recombinant CRYAB was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Molecular Weight: 20kDa (175aa), confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3 μ g)

Sequences of amino acids:

MDIAIHHPWI RRPFFPFHSP SRLFDQFFGE HLLSDFST ATSLSPFYLR PPSFLRAPSW IDTGLSEMRL EKDRFSVNLD VKHFSPEELK
VKVLGDVIEV HGKHEERQDE HGFISREFHR KYRIPADVDP LTITSSLSSD GVLTVNGPRK QVSGPERTIP ITREEKPAVA AAPKK

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.