

Recombinant human Crystallin alpha B/CRYAB protein

Catalog Number: CRA3002

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-175aa

UniProt No.

P02511

NCBI Accession No.

NP_001876.1

Alternative Names

CRYAB, CRYA2, CRYAB (Crystallin alpha B), Rosenthal fiber component, Heat shock protein beta-5, HspB5, Renal carcinoma antigen NY-REN-27, Alpha crystallin B chain, AACRYA, Alpha(B) crystallin, Crystallin alpha polypeptide 2, CTPP 2, CTPP2, Heat shock 20 kD like protein, Heat shock protein beta 5, NY REN 27 antigen, Renal carcinoma antigen NY REN 27,

PRODUCT SPECIFICATION

Molecular Weight

20.1 kDa (175aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 50mM NaCl, 1mM EDTA

Purity

> 95% by SDS-PAGE

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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 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.

Amino acid Sequence

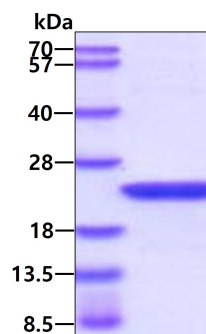
MDIAIHPWI RRPFFPFHSP SRLFDQFFGE HLLSDFPT STLSPFYLR PPSFLRAPSW FDTGLSEMRL EKDRFSVNLD
VKHFSPEELK VKVLGDVIEV HGKHEERQDE HGFISREFHR KYRIPADVDP LTITSSLSSD GVLTVNGPRK QVSGPERTIP
ITREEKPAVT AAPKK

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.