Recombinant mouse Crystallin alpha B/CRYAB protein

Catalog Number: CRB0801

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-175aa

UniProt No.
P23927

NCBI Accession No.
NP_034094.1

Alternative Names
Crya2, Crya-2, Cryab, Crystallin alpha B, HspB5

PRODUCT SPECIFICATION

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

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10 % glycerol

Purity
> 85% 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 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 alpha-crystallins are an autokinase activity and participation in the intracellular architecture. CRYAB is expressed widely in many tissues and organs. Recombinant CRYAB was

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expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

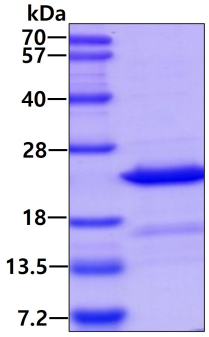
MDIAIHHPWI RRPFFPFHSP SRLFDQFFGE HLLESDLFST ATSLSPFYLR PPSFLRAPSW IDTGLSEMRL EKDRFSVNLD VKHFSPEELK VKVLGDVIEV HGKHEERQDE HGFISREFHR KYRIPADVDP LTITSSLSSD GVLTVNGPRK QVSGPERTIP ITREEKPAVA AAPKK

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

DATA

SDS-PAGE



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