

Recombinant Human Alpha Crystallin A (CRYAA)

ORDERING INFORMATION

Catalog Number	Size
11075P-20	20ug
11075P-100	100ug
11075P-1000	1000ug

Formulation: Sterile-filtered colorless solution contains 20mM Tris-HCl, pH 7.5, 50mM NaCl and 1mM EDTA. Purified by proprietary chromatographic techniques.

BACKGROUND

Alpha crystallins are composed of two gene products: alpha-A (acidic) and alpha-B (basic). Alpha crystallins are induced by heat shock and are members of the small heat shock protein family. They act as molecular chaperones. In addition, alpha crystallins have autokinase activity and play a role in intracellular architecture. The expression of alpha crystalline A is preferentially restricted to lens cells.

DESCRIPTION

Recombinant Human CRYAA produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 173 amino acids with a molecular weight of 19.9kDa.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

Purity: Greater than 95% as determined by SDS-PAGE and RP-HPLC.

Accession number: P02489

Amino Acid Sequence:

MDVTIQHPWF KRTLGPFPYPS
RLFDQFFGEG LFEYDLLPFL
SSTISPYRQ
SLFRTVLDSGISEVRSRDK
FVIFLDVKHF SPEDLTVKVQ
DDFVEIHGKH NERQDDHGYI
SREFHRRYRLPSNVDQSALS
CSLSADGMLT FCGPKIQTGL
DATHAERAIP VSREEKPTSA PSS.

STORAGE AND STABILITY

Store at 4°C if entire vial will be used within 2-4 weeks. Store at or below -20°C for longer periods of time. For long term storage, addition of a carrier protein (0.1% HSA or BSA) is recommended.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.