

Recombinant e.coli hchA protein

Catalog Number: ATGP1023

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-283aa

UniProt No.

P31658

NCBI Accession No.

NP_416476

Alternative Names

Hsp31 molecular chaperone, ECK1963, JW1950, yedu, yzzC

PRODUCT SPECIFICATION

Molecular Weight

33.3 kDa (303aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

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

HchA, also known as, Escherichia coli Hsp31, is a homodimeric member of the ThiI/DJ-1/Pfpl superfamily that combines molecular chaperone and aminopeptidase activities. It uses temperature-induced exposure of structured hydrophobic domains to capture and stabilize early unfolding protein intermediates under severe thermal stress. Recombinant E. coli hchA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

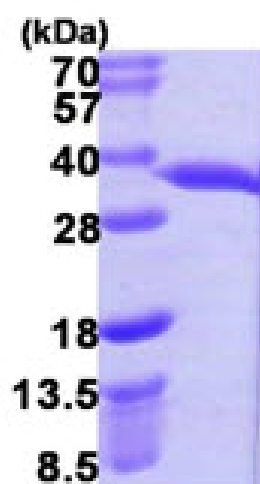
MGSSHHHHHH SSGLVPRGSH MTVQTSKNPQ VDIAEDNAFF PSEYSLSQYT SPVSDLDGVD YPKPYRGKHK ILVIAADERY
LPTDNGKLFS TGNHPIETLL PLYHLHAAGF EFEVATISGL MTKFEYWAMP HKDEKVMPPF EQHKSLFRNP KKLADVVASL
NADSEYAAIF VPGGHGALIG LPESQDVAAA LQWAIKDRF VISLCHGPAA FLALRHGDNP LNGYSICAFP DAADKQTPEI
GYMPGHLTWY FGEELKKMG M NIINDDITGR VHKDRKLLTG DSPFAANALG KLAAQEMLAA YAG

General References

Malki A. et al. (2003) Biochem. Biophys. Res. Commun. 301:430-436.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)