

AR09963PU-N

E. coli hchA (1-283, His-tag) - Purified

Alternate names:

Chaperone protein hchA, EchHsp31, Hsp31, yedU, yzzC

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

HchA, also known as, Escherichia coli Hsp31, is a homodimeric member of the Thil/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.

Uniprot ID:

[P31658](#)

NCBI:

[AP_002575](#)

GeneID:

[946481](#)

Species:

E. coli

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95%

Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Description:

Recombinant E. coli hchA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

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

Molecular weight: 33.3 kDa (303aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

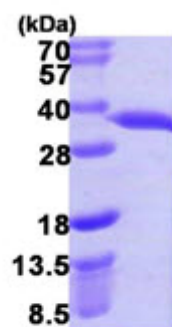
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

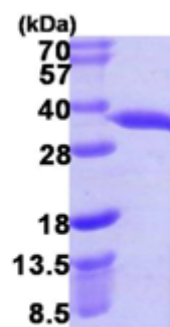
Malki A. et al. (2003) Biochem. Biophys. Res. Commun. 301:430-436.

Pictures:



15% SDS-PAGE (3ug)

Recombinant E. coli hchA, 1-283 aa, His-tagged



15% SDS-PAGE (3ug)