

hchA, 1-283aa, E.coli, His tag, E.coli

Cat.NO.: TP02414

3th Edition

Synonyms:Hsp31 molecular chaperone, ECK1963, JW1950, yedU, yzzC.

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.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl,1mM DTT

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

Sequences:

MGSSHHHHHHSSGLVPRGSHMTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAA
DERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPPFEQHKSLFRNPKKL
ADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPA AFLALRHGDNPLNGYSICAFP
DAADKQTPEIGYMPGH LTWYFGEELKKMG MNIINDDITGRVHKDRKLLTG DSPFAANALGKLAAQEMLAAYAG

Purity:> 95% by HPLC

Concentration:1.0 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.