

hchA E.Coli

Description: hchA produced in E.Coli is a single, non-glycosylated polypeptide chain containing 303 amino acids (1-283 a.a.) and having a molecular mass of 33.3kDa. hchA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: HYP5-050

For research use only.

Synonyms: Chaperone protein hchA, EcHsp31, Hsp31, hchA, yedU, yzzC, b1967, JW1950.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHH SSGLVPRGSH MTVQTSKNPQ VDIAEDNAFF
PSEYLSQYT SPVSDLDGVD YPKPYRGKHK ILVIAADERY LPTDNGKLFSG TGNHPIETLL
PLYHLHAAGF EFEVATISGL MTKFEYWAMP HKDEKVMPPF EQHKSLFRNP KKLADVVASL
NADSEYAAIF VPGGHGALIG LPESQDVAAA LQWAIKNDRF VISLCHGPAA FLALRHGDNP
LNGYSICAFP DA

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The hchA contains (1mg/ml) 20mM Tris-HCl buffer (pH8.0), 20% glycerol 0.1M NaCl and 1mM DTT.

Stability:

hchA E.Coli Recombinant although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Usage:

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Introduction:

Escherichia coli Hsp31 (HchA) is a homodimeric member of the Thi/DJ-1/Pfpl superfamily which combines molecular chaperone and aminopeptidase activities. HchA uses temperature-induced exposure of structured hydrophobic domains to capture and stabilize early unfolding protein intermediates under severe thermal stress.

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