

Product information

HSP104, 1-908 aa

Saccharomyces cerevisiae, Recombinant, *E.coli*

Cat. No. IBHSP0502

Full name: Heat shock protein 104

NCBI Accession No.: NP_013074

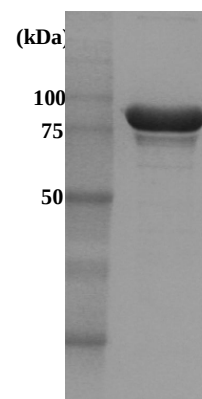
Description: Hsp104 is a molecular chaperone required for stress tolerance and for maintenance of [psi(+)] prions in the budding yeast *Saccharomyces cerevisiae*. Hsp104 can protect yeast cells against high temperature and high concentration of ethanol but mutation studies have shown this protein is not required for normal growth. Hsp104 was cloned into an *E. coli* expression vector and was purified to apparent homogeneity by using conventional column chromatography techniques.

Form: Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 100 mM NaCl, 2 mM EDTA, 5% glycerol

Molecular Weight: 102kDa (908aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



10% SDS-PAGE (3ug)

Sequences of amino acids:

MNDQTQFTER ALTILTLAQK LASDHQHPQL QPIHILAAFI ETPEDGSVPY LQNLIEKGRY DYDLFKKVVN RNLVRIPQQQ PAPAEITPSY ALGKVLQDAA
 KIQKQQKDSF IAQDHILFAL FNDSSIQQIF KEAQVDIEAI KQQAELRLGN TRIDSRGADT NTPLEYLSKY AIDMTEQARQ GKLDPIVIGRE EEIRSTIRVL
 ARRIKSNPCL IGEPGIGKTA IIEGVAQRIL DDDVPTILQG AKLFSLDLAA LTAGAKYKGD FEERFKGVLK EIEESKTLIV LFIDEIHMLM GNGKDDAANI
 LKPALSRGQL KVI GATTNNE YRSIVEKDGA FERRFQKIEV AEPSVRQTVA ILRGLQPKYE IHHGVRIILDS ALVTAAQLAK RYLPYRRLPD SALDLVDISC
 AGVAVARDSK PEELDSKERQ LQLIQVEIKA LERDEDADST TKDRLKLARQ KEASLQEELE PLRQRYNEEK HGHEELTQAK KKLDELENKA LDAERRYDTA
 TAADLRYFAI PDIKKQIEKL EDQVAEEERR AGANSMIQNV VSDTISETA ARLTGIPVKK LSESENEKLI HMERDLSSEV VGQMDAIKAV SNAVRLSRSG
 LANPRQPASF LFLGLSGSGK TELAKKVAGF LFNDEDMIR VDCSELSEKY AVSKLLGTTA GYVG YDEGGF LTNQLQYKPY SVLLFDEVEK AHPDVLTVML
 QMLDDGRITS GQGKTIDCSN CIVIMTSNLG AEFINSQQGS KIQESTKNLV MGAVRQHFRL EFLNRISIV IFNKL SRKAI HKIVDIRLKE IEEFEQNDK
 HYKLNLTQEA KDFLAKYGYS DOMGARPLNR LIQNEILNKL ALRILKNEIK DKETVNVVLK KGKSRDENVP EEAECELEVL PNHEATIGAD TLGDDDNEDS
 MEIDDDLD

General references:

Abbas-Terki T *et al*, (2001) *Mol Cell Biol*, **21**: 7569-7575.

Sanchez Y *et al*, (1990) *Science*, **248**: 1112-1115.

Parsell DA *et al*, (1991) *Nature*, **353**: 270-273.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.