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**Hsp104(amino acids 1-908) Saccharomyces cerevisiae, Recombinant, E.coli**

**Cat.NO.: TP02518**

3th Edition

**Synonyms:**Heat shock protein 104

**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

**Sequences:**

MNDQTQFTERALTILTLAQLASDHQHPQLQPIHILAAFIETPEDGSVPYLQNLIEKGRYDYDLFKKVVNRNLVRIPQ  
QQPAPAEITPSYALGKVLQDAAKIQKQKDSFIAQDHILFALFNDSSIQQIFKEAQVDIEAIKQQAELRGNTRIDSRG  
ADTNTPLEYLSKYAIDMTEQARQGGKLDPVIGREEEIRSTIRVLARRIKSNPCLIGEPGIGKTAIEGVAQRIIDDDVPTIL  
QGAKLFSLDLAALTAGAKYKGDFFERFKGVLKEIEESKTLIVLFIDEIHMLMGNGKDDAANILKPALSRGQLKVGIGATT  
NNEYRSIVEKDGAFERRFQKIEVAEPSVRQTVAILRGLQPKYEIHHGVRILDSALVTAAQLAKRYLPYRRPLPDSALDL  
VDISCAGVAVARDSKPEELDSKERQLLIQVEIKALERDEDADSTTKDRLKLARQKEASLQEELEPLRQRYNEEKHG  
HEELTQAKKKLDELENKALDAERRYDTATAADLRYFAIPDIKKQIEKLEDQVAEEERRAGANSMIQNVVDSDTISETA  
ARLTGIPVKKLSESENEKLIHMERDLSSEVVGQMDAIAVSNVRLSRGLANPRQPASFLFLGLSGSGKTELAKKV  
AGFLFNDEDMMIRVDCSELSEKYAVSKLLGTTAGYVGYDEGGFLTNQLQYKPYSVLLFDEVEKAHPDVLTVMLQML  
DDGRITSGQGKTIDCSNCIVIMTSNLGAEFINSQQGSKIQUESTKNLVMGAVRQHFRPEFLNRISIVIFNKLSRKAIHKI  
VDIRLKEIEERFEQNDKHYKLNLQEAKDFLAKYGYSDDMGARPLNRLIQNEILNKLALRILKNEIKDKETVNVVLKKG  
KSRDENVP EEAE ECLEVL PNHEATIGADTLGDDDNEDSMEIDDDLD

**Purity:**> 95% by HPLC

**Concentration:**1 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.