

Recombinant Yeast Heat Shock Protein 104

Cat. No. HSP104-319Y **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Saccharomyces cerevisiae</i> HSP104 protein was overexpressed in <i>E. coli</i> and purified by conventional column chromatography techniques (908 aa, 102 kDa).
Species	Yeast
Source	<i>E. coli</i>
Description	Hsp104 is a molecular chaperone required for stress tolerance and for maintenance of [psi(+)] prions in the budding yeast <i>Saccharomyces cerevisiae</i> . 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 <i>E. coli</i> expression vector and was purified to apparent homogeneity by using conventional column chromatography techniques.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 100 mM NaCl, 2 mM EDTA, 5% glycerol.
Molecular Weight	102 kDa (908aa).
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MNDQTQFTER ALTILTLAQK LASDHQHPQL QPIHILAAFI ETPEDGSVPY

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LQNLIEKGRY DYDLFKKVVN RNLVRIPQQQ PAPAEITPSY ALGKVLQDAA
 KIQKQQKDSF IAQDHILFAL FNDSSIIQQIF KEAQVDIEAI KQQAELRGN
 TRIDSRGADT NTPLEYLSKY AIDMTEQARQ GKLDPVIGRE EEIRSTIRVL
 ARRIKSNPCL IGEPGIGKTA IIEGVAQR II DDDVPTILQG AKLFSLDLAA
 LTAGAKYKGD FEERFKGVK EIEESKTLIV LFIDEIHMLM GNGKDDAANI
 LKPALSRGQL KVIGATTNNE YRSIVEKDGA FERRFQKIEV AEPSVRQTV
 ILRGLQPKYE IHHGVRILDS 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 LFNDEDMMIR VDCSESEKY
 AVSKLLGTTA GYVGYDEGGF LTNQLQYKPY SVLLFDEVEK AHPDVLTVML
 QMLDDGRITS GQGKTIDCSN CIVIMTSNLG AEFINSQQGS KIQESTKNLV
 MGA VRQHFRP EFLNRISIV IFNKLSRKAI HKIVDIRLKE IEERFEQNDK
 HYKLNLTQEA KDFLAKYGY SDDMGARPLNR LIQNEILNKL ALRILKNEIK
 DKETVNVVLK KGKSRDENVP EEAECECLEVL PNHEATIGAD TLGDDDNEDS
 MEIDDDLD

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.

GENE INFORMATION
Gene Name

HSP104

Synonyms

HSP104; Heat shock protein 104; Heat shock protein that cooperates with Ydj1p (Hsp40) and Ssa1p (Hsp70) to refold and reactivate previously denatured, aggregated proteins; responsive to stresses including: heat, ethanol, and sodium arsenite; involved in [PSI⁺] propagation; Hsp104p.

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Gene ID	850633
Protein Refseq	NP_013074.1
UniProt ID	P31539
Chromosome Location	XII
Function	ADP binding; ATP binding; ATPase activity, coupled; chaperone binding; nucleoside-triphosphatase activity; nucleotide binding; unfolded protein binding.

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