

Recombinant Yeast HSP104 protein

Catalog Number: HSP0502

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-908aa

UniProt No.

P31539

NCBI Accession No.

NP_013074.1

Alternative Names

Heat shock protein 104, Protein aggregation-remodeling factor HSP104, L0948

PRODUCT SPECIFICATION

Molecular Weight

102 kDa (908aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

MNDQTQFTER ALTILTLAQK LASDHQHPQL QPIHILAAFI ETPEDGSVPY LQNLIKEKGRY DYDLFKKVNN RNLVRIQQQQ
PAPAEITPSY ALGKVLQDAA KIQKQQKDSF IAQDHILFAL FNDSSIQQIF KEAQVDIEAI KQQALELRGN TRIDSRGADT
NTPLEYLSKY AIDMTEQARQ GKLDPVIGRE EEIRSTIRVL ARRIKSNPCL IGEPEGIGKTA IIEGVAQRRII DDDVPTILQG
AKLFSLDLAA LTAGAKYKGD FEERFKGVLK EIEESKTLIV LFIDEIHMLM GNGKDDAANI LKPALSRGQL KVIGATTNNE
YRSIVEKDGA FERRFQKIEV AEPSVRQTVL ILRGLQPKYE IHHGVRILDS ALVTAAQLAK RYLPYRRLPD SALDLVDISC
AGVAVARDSK PEELDSKERQ LQLIQVEIKA LERDEDADST TKDRLKLARQ KEASLQEELE PLRQRYNEEK HGHEELTQAK
KKLDELENKA LDAERRYDTA TAADLRYFAI PDIKKQIEKL EDQVAEEERR AGANSMIQNV VDSDTISETA ARLTGIPVKK
LSESENEKLI HMERDLSSEV VGQMMDAIKAV SNAVRLSRSG LANPRQPASF LFLGLSGSGK TELAKKVAGF LFNDEDMMIR
VDCSELSEKY AVSKLLGTTA GYVGYDEGGF LTNQLQYKPY SVLLFDEVEK AHPDVLTVML QMLDDGRITS GQGKTIDCSN
CIVIMTSNLG AEFINSQQGS KIQUESTKNLV MGAVRQHFPR EFLNRRISSIV IFNKLSRKAI HKIVDIRLKE IEERFEQNDK
HYKLNLTQEAD KDFLAKYGYSD DDMGARPLNR LIQNEILNKL ALRILKNEIK DKETVNVLKGKGSRDENVP EEAEECLEVL
PNHEATIGAD TLGDDDNEDS MEIDDDLD

General References

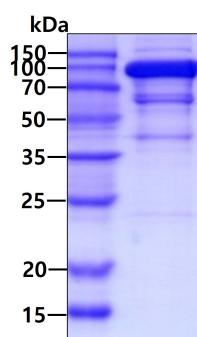
Abbas-Terki T et al, (2001) Mol Cell Biol, 21: 7569-7575.

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

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.