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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

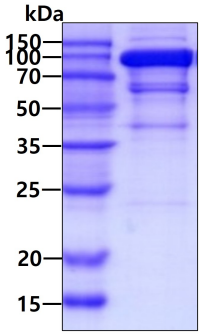
MNDQTQFTER ALTILTLAQK LASDHQHPQL QPIHILAAFI ETPEDGSVPY LQNLIEKGRY DYDLFKKVVN RNLVRIPQQQ PAPAEITPSY ALGKVLQDAA KIQKQQKDSF IAQDHILFAL FNDSSIQQIF KEAQVDIEAI KQQALELRGN TRIDSRGADT NTPLEYLSKY AIDMTEQARQ GKLDPVIGRE EEIRSTIRVL ARRIKSNPCL IGEPGIGKTA IIEGVAQRII DDDVPTILQG AKLFSLDLAA LTAGAKYKGD FEERFKGVLK EIEESKTLIV LFIDEIHMLM GNGKDDAANI LKPALSRGQL KVIGATTNNE YRSIVEKDGA FERRFQKIEV AEPSVRQTVA ILRGLQPKYE IHHGVRILDS ALVTAAQLAK RYLPYRRLPD SALDLVDISC AGVAVARDSK PEELDSKERQ LQLIQVEIKA LERDEDADST TKDRLKLARQ KEASLQEELE PLRQRYNEEK HGHEELTQAK KKLDELENKA LDAERRYDTA TAADLRYFAI PDIKKQIEKL EDQVAEEERR AGANSMIQNV VDSDTISETA ARLTGIPVKK LSESENEKLI HMERDLSSEV VGQMDAIKAV SNAVRLSRSG LANPRQPASF LFLGLSGSGK TELAKKVAGF LFNDEDMMIR VDCSELSEKY AVSKLLGTTA GYVGYDEGGF LTNQLQYKPY SVLLFDEVEK AHPDVLTVML QMLDDGRITS GQGKTIDCSN CIVIMTSNLG AEFINSQQGS KIQESTKNLV MGAVRQHFRP EFLNRISSIV IFNKLSRKAI HKIVDIRLKE IEERFEQNDK HYKLNLTQEA KDFLAKYGYS DDMGARPLNR LIQNEILNKL ALRILKNEIK DKETVNVVLK KGKSRDENVP 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.