

## HSP104 Saccharomyces

**Description:** Recombinant HSP104 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 908 amino acids and having a molecular mass of 102 kDa.

**Catalog #:** HYPS-111

**Synonyms:** Heat shock protein 104, Protein aggregation-remodeling factor HSP104, HSP104, YLL026W, L0948.

For research use only.

**Source:** Saccharomyces cerevisiae.

**Physical Appearance:** Sterile filtered colorless solution.

**Purity:** Greater than 90.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

The HSP-104 protein solution contains 20mM Tris-HCl, pH 7.4, 100mM NaCl. 2mM EDTA and 5% Glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

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**Introduction:**

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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