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Certificate of Analysis and Data Sheet

Recombinant *Saccharomyces cerevisiae* Heat Shock Protein 104 (HSP104)

Catalog No.
228-10785

Source
Saccharomyces cerevisiae.

Synonyms

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

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.

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.

Physical Appearance

Sterile filtered colorless solution.

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). **Please prevent freeze-thaw cycles.**

Purity

Greater than 90.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**