

## GroES E.Coli

**Description:** Recombinant GroES produced in E.Coli is a single, non-glycosylated polypeptide chain containing 97 amino acids and having a molecular mass of 10.4 kDa.

**Catalog #:** HYPS-012

**Synonyms:** CPN10, GROES, HSP10, HSPE1, 10 kDa chaperonin, Protein Cpn10, groES protein, 11.2 kDa stress response protein, Heat shock protein 10.

For research use only.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MNIRPLHDRV IVKRKEVETK SAGGIVLTGS AAKSTRGEV  
LAVGNRILE GEVKPLDVKVGDIVIFNDG YGVKSEKIDN EEVLIMSESD ILAIVEA.

**Purity:** Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

The groES protein contains 25mM Tris-HCl buffer (pH 7.5), 100mM NaCl, 1mM DTT and 10% 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:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

GroES protein is the co-chaperonin of GroEL in E.coli and assists protein folding. GroEL mediated folding requires the co-chaperonin GroES which is essential for viability. GroES is composed of a single heptameric ring of 10kDa subunits that binds to the ends of the GroEL cylinder. GroES gene was amplified by PCR from E.coli and cloned into an expression vector. This protein was overexpressed in E.coli and was purified by using conventional chromatography techniques.

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