9051 Mira Mesa Blvd, #910094
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GroES E.Coli

GroES (HSP10) E.Coli Recombinant
RCP0970

Product Overview

Name	GroES E.Coli

Description

GroES (HSP10) E.Coli Recombinant

Synonyms

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

Introduction

GroES protein is the co-chaperonin of GroES 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.

Source

Escherichia Coli.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The GroES protein (1mg/ml) contains 25mM Tris-HCl buffer (pH 7.5), 100mM NaCl, 5mM 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.

Purity

Greater than 95.0% as determined by analysis by SDS-PAGE.

Amino acid sequence

MNIRPLHDRV IVKRKEVETK SAGGIVLTGS AAAKSTRGEV LAVGNGRILE GEVKPLDVKVGDIVIFNDG YGVKSEKIDN EEVLIMSESD ILAIVEA.

Precautions

GroES E.Coli is for research use only and not for use in diagnostic or therapeutic procedures.

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