

Recombinant GroES/Heat Shock 10 kDa Protein 1

Catalog No.	CRG115A CRG115B CRG115C	Quantity:	20 µg 100 µg 1.0 mg
Alternate Names:	CPN10, GROES, HSP10, HSPE1, 10 kDa chaperonin, Protein Cpn10, groES protein, 11.2 kDa stress response protein, Heat shock protein 10.		
Description:	<p>GroES protein is the co-chaperonin of GroES in <i>E.coli</i> and assists protein folding. GroEL mediated folding requires the co-chaperon in GroES which is essential for viability. GroES is composed of a single heptameric ring of 10 kDa subunits that binds to the ends of the GroEL cylinder. GroES gene was amplified by PCR from <i>E.coli</i> and cloned into an expression vector. This protein was overexpressed in <i>E.coli</i> and was purified by using conventional chromatography techniques.</p> <p>Recombinant GroES produced in <i>E. coli</i> is a single, non-glycosylated polypeptide chain containing 97 amino acids and having a molecular mass of 10.4 kDa.</p>		
Source:	<i>E. coli</i>		
Molecular Mass:	10.4 kDa		
Formulation:	The groES protein contains 25 mM Tris-HCl buffer (pH 7.5) + 100 mM NaCl + 1 mM DTT and 10% Glycerol.		
Purity:	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.		
Physical Appearance:	Sterile filtered colorless solution.		
Amino Acid Sequence:	MNIRPLHDRV IVKRKEVETK SAGGIVLTGS AAKSTRGEV LAVGNRILE GEVKPLDVKVGDIVIFNDG YGVKSEKIDN EEVLIMSESD ILAIVEA.		
Storage & 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.		

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