GroES (E. coli), (recombinant)

Recombinant GroES (E. coli) that acts as a co-chaperonin, working with GroEL to assist protein folding and prevent aggregation.

The *E. coli* heat shock proteins GroEL and GroES are two of the most thoroughly characterized members of a class of proteins known collectively as "molecular chaperones". GroEL (cpn60; Hsp60 homolog) is an acidic 60kDa *E. coli* heat shock protein which possesses a weak ATPase activity. In its native form, GroEL exists as a 14-mer consisting of two stacked rings each composed of seven identical subunits of Mr ~57,250. GroES (cpn10; Hsp10 homolog) consists of a single ring of seven identical subunits of Mr ~10,350. Molecular chaperones, such as GroEL and GroES, are thought to function by interacting with transiently exposed interactive surfaces during their nascent synthesis, folding, transport and oligomerization. The net effect of chaperone participation in these processes is a reduction in inappropriate protein-protein interactions that might produce a nonfunctional structure. The GroEL and GroES genes, constituting the GroE operon, are members of the heat shock regulon of*E. coli*. Synthesis of the GroE protein, which accounts for approximately 1% of the cellular protein at 37oC, increases to about 10% of the total protein content upon shifting the growth temperature to 46oC.

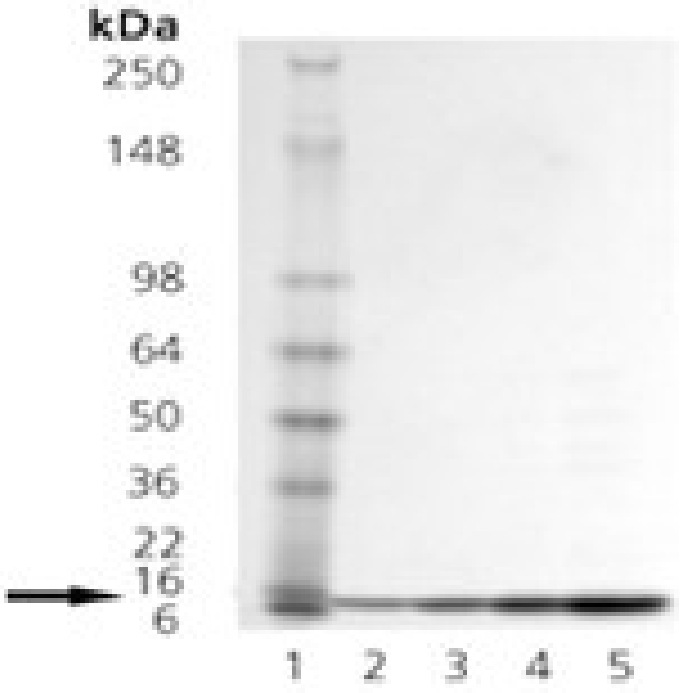
Ordering Information

Order Online »

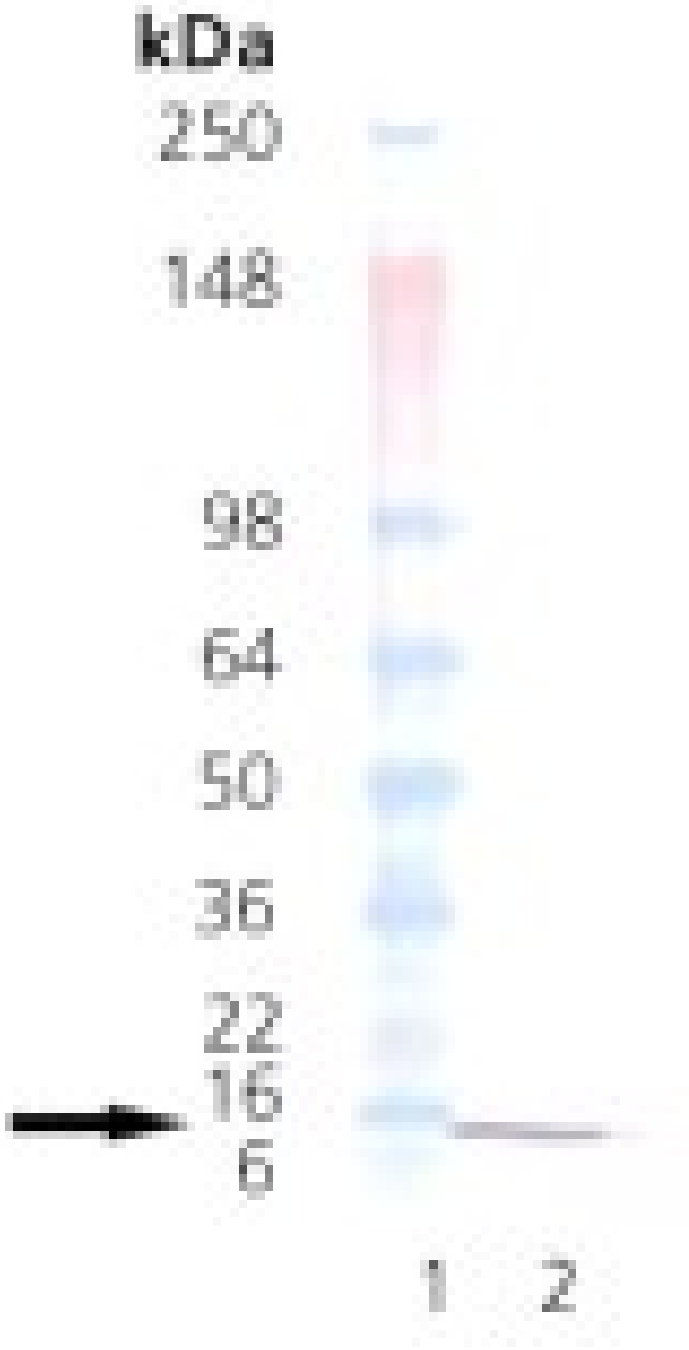
ADI-SPP-620-D	50µg
ADI-SPP-620-F	200µg

Manuals, SDS & CofA

View Online »



SDS-PAGE analysis: Lane 1: MW marker, Lane 2: 0.5µg, Lane 3: 1µg, Lane 4: 2µg, Lane 5: 5µg GroES



Western Blot analysis: Lane 1: MWM, Lane 2: GroES probed with anti-GroES pAb.

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	Heat shock protein 10, HSP10, 10kDa Chaperonin, Protein Cpn10 GroES protein
Application Notes	Western blot control.
Formulation	Liquid. In 50mM TRIS, pH 7.5, containing 100mM sodium chloride, 10mM magnesium chloride, and 5mM DTT.
MW	~10kDa
Purity	≥95% (SDS-PAGE; Western blot)
Purity Detail	Purified by multi-step chromatography.
Source	Produced in *E. coli*.
UniProt ID	P0A6F9 (strain K12)

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