**PRODUCT INFORMATION**

**Description:** Chaperonin 60 (GroEL) and chaperonin 10 (GroES) belong to the ubiquitous family of heat-shock molecular chaperones found in prokaryotes and in eukaryotic organelles. The chaperonins assist the folding of nascent, organelle-imported or stress-destabilized polypeptides. In vitro, purified GroEL together with purified GroES in the presence of Mg-ATP facilitate refolding and reactivation of denatured proteins. Chaperonin 60 (GroEL) is expressed in *E. coli*.

**Background:** Chaperonins undergo large conformational changes during a folding reaction as a function of the enzymatic hydrolysis of ATP as well as binding of substrate proteins and cochaperonins, such as GroES. These conformational changes allow the chaperonin to bind an unfolded or misfolded protein, encapsulate that protein within one of the cavities formed by the two rings, and release the protein back into solution. Upon release, the substrate protein will either be folded or will require further rounds of folding, in which case it can again be bound by a chaperonin.

**M. W.:** 60,000 Da

**Recombinant:** Expressed in *E. coli*

**Purity:** >95% as determined by SDS-PAGE.

**Storage buffer:** Liquid. In Tris-HCl Buffer (pH 7.4).

**REFERENCES**


**FOR RESEARCH USE ONLY**