

Product datasheet

Recombinant *E. coli* groES protein ab168059

Overview

Product name	Recombinant <i>E. coli</i> groES protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Accession	P0A6G1
Species	Escherichia coli
Sequence	MNIRPLHDRVIVKRKEVETKSAGGIVLTGSAAAKSTRG EVLAVGNRILE NGEVKPLDVKVGDIVFNDGYGVKSEKIDNEEVLIMSES DILAVEA
Molecular weight	10 kDa
Amino acids	1 to 97

Specifications

Our [Abpromise guarantee](#) covers the use of **ab168059** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Purity	>= 99 % .
Form	Liquid
Additional notes	For maximum product recovery after thawing, centrifuge the vial before opening the cap.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.075% Potassium chloride, 0.095% Magnesium chloride, 0.79% Tris HCl
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General Info

Relevance

GroEL and GroES are E.coli chaperones, which are homologs of the mitochondrial chaperones Hsp60 and Hsp10 respectively. GroEL is a double toroidal assembly of 14 identical subunits which form two heptameric rings stacked back-to-back, with a cavity at each end. GroEL and its co-chaperonin GroES facilitate protein folding in an ATP-dependent mechanism. Binding of substrate protein, in addition to binding of ATP, induces a conformational change that allows association of this binary complex with a separate lid structure, GroES.

Cellular localization

Cytoplasmic

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