

Product datasheet

Recombinant *E. coli* GrpE protein ab63839

画像数 1

製品の概要

製品名	Recombinant <i>E. coli</i> GrpE protein
タンパク質長	Full length protein

製品の詳細

由来	Recombinant
由来	Escherichia coli

アミノ酸配列

生物種	Escherichia coli
配列	MSSKEQKTPE GQAPEEIIMD QHEEIEAVEP EASAEQVDPR DEKIANLEAQ LAEAQTRERD GILRVKAEME NLRRTTELDI EKAHKFALEK FINELLPVID SLDRALEVAD KANPDMSAMV EGIELTLKSM LDVVRKFGVE VIAETNVPLD PNVHQAIAMV ESDDVAPGNV LGIMQKGYTL NGRTIRAAMV TVAKAKA

特性

Our [Abpromise guarantee](#) covers the use of **ab63839** in the following tested applications.

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

アプリケーション	SDS-PAGE
精製度	> 90 % SDS-PAGE. ab63839 was overexpressed in E.coli and purified by using the conventional column chromatography techniques.
製品の状態	Liquid

前処理および保存

保存方法および安定性	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: None Constituents: 20mM Tris, 100mM Sodium chloride, pH 8.0
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関連情報

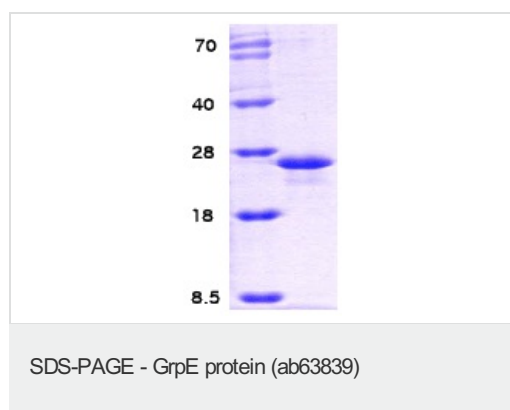
関連性

GrpE is a so-called co-chaperone because it is known to assist the DnaK (Hsp70) protein to effectively carry out DnaK-dependent chaperone activity (i.e. protein folding, protein transport, disaggregation of heat inactivated proteins, activation of mutant protein). GrpE acts as a nucleotide exchange factor for DnaK, the main Hsp70 protein in bacteria, accelerating ADP/ATP exchange by several orders of magnitude. Unfolded proteins bind initially to dnaJ; upon interaction with the dnaJ-bound protein, dnaK hydrolyzes its bound ATP, resulting in the formation of a stable complex. GrpE releases ADP from dnaK; ATP binding to dnaK triggers the release of the substrate protein, thus completing the reaction cycle. GrpE may also function as a thermosensor. GrpE is a homodimer, each subunit containing three structural domains: a N-terminal unordered segment, two long coils and a C-terminal globular domain formed by a four-helix bundle, and a beta-subdomain.

細胞内局在

Cytoplasmic

画像



3µg protein in 15% SDS-PAGE.

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