Name: Protein GrpE

Function:

Participates actively in the response to hyperosmotic and heat shock by preventing the aggregation of stress-denatured proteins, in association with DnaK and GrpE. It is the nucleotide exchange factor for DnaK and may function as a thermosensor. 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. Several rounds of ATP-dependent interactions between DnaJ, DnaK and GrpE are required for fully efficient folding.

Source:

We searched on NCBI with the accession number obtained and confirmed on Uniprot our Blast results:

GO - Molecular functioni

adenyl-nucleotide exchange factor activity Source: InterPro

GO - Biological processi

protein folding Source: InterPro

We found also information about the interaction with other structures:

"Homodimer"

This protein has a subcellular location in the cytoplasm. Score of 2 out 5 "-Protein inferred from homology"