

Recombinant E. coli DnaK protein (His tag) ab241271

1 Image

Description	
Product name	Recombinant E. coli DnaK protein (His tag)
Purity	> 90 % SDS-PAGE.
Expression system	Yeast
Accession	<u>Q1RGI8</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Escherichia coli
Sequence	MGKIIGIDLGTNSCVAIMDGTTPRVLENAEGDRTPPSIIAYT QDGETLV GQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMP FKIIAADNGD AWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAV ITVPAYFNDAQ RQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAV YDLGGGTF DISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEE FKKDQGI DLRNDPLAMQRLKEAAEKAKIELSSAQQTVDNLPYTADA TGPKHMKV TRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVG GQTRMPMVQ KKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDV LLLDVTPLSLG IETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQ GERKRAAD NKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSADK NSGKEQKIT IKASSGLNEDEIQKMVRDAEANAEDRKFEELVQTRNQG DHLLHSTRKQV EEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQE LAQVSQKLME IAQQQHAQQQTAGADASANNAKDDDDVDAEFEEVKDKK

Predicted molecular weight	71 kDa including tags
Amino acids	1 to 638
Tags	His tag N-Terminus
Description	Recombinant <i>E. coli</i> DnaK protein (His tag)

Specifications

Our **Abpromise guarantee** covers the use of **ab241271** in the following tested applications.

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

Applications	SDS-PAGE
Form	Liquid

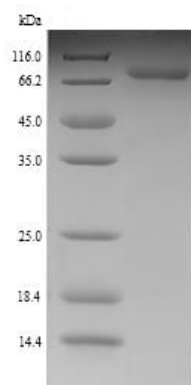
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.2 Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)
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General Info

Relevance	DnaK is the prokaryotic analogue of eukaryotic Hsp70. Heat shock proteins applies to a group of proteins that assist in the assembly, folding, and translocation of other proteins. In addition, they protect the cell against heat injury or other forms of stress. All cells, prokaryotic and eukaryotic, are able to respond to different cellular stresses by synthesizing these proteins. Heat shock proteins are highly conserved, ubiquitously distributed, and involved in important aspects of viral and bacterial infections, autoimmune diseases, and in cancer immunity. Two families of molecular chaperones have been identified. The members of the Hsp70 family (DnaK/DnaJ/GrpE) bind to the growing polypeptide chain and prevent its premature folding. The chaperonin family (GroEL and GroES) assists in correct folding when the complete polypeptide chain is formed and is transported into the cytosol or mitochondria. All the major heat shock proteins help to suppress irreversible unfolding reactions. These protein folding 'assistants' may have important functions in amyloid diseases where incorrectly folded proteins accumulate as folded aggregates.
Cellular localization	Cytoplasm. Cell inner membrane; Peripheral membrane protein.

Images



SDS-PAGE - Recombinant *E. coli* DnaK protein (His tag) (ab241271)

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis with 5% enrichment gel and 15% separation gel of ab241271.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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