

Product datasheet

Recombinant DnaK protein ab51121

[2 References](#) [1 Image](#)

Description

Product name Recombinant DnaK protein

Purity > 85 % SDS-PAGE.

Expression system Escherichia coli

Protein length Full length protein

Animal free No

Nature Recombinant

Sequence

MGKIIIDLG TTNSCVAIMD GTTPRVLENA EGDRTTPSII
AYTQDGETLV GQPAKRQAVT NPQNTLFAIK
RLIGRRFQDE EVQRDVSIMP FKIIAADNGD
AWVEVKGQKM APPQISAEVL KKMKKAEDY
LGEPVTEAVI TVPAYFNDAQ RQATKDAGRI AGLVVKRIIN
EPTAAALAYG LDKGTGNRTI AVYDLGGGTF DISIIEIDEV
DGEKTFEVL TNGDTHLGGE DFDSRLINYL
VEEFKKDQGI DLRNDPLAMQ RLKEAAEKAK
IELSSAQQT D VNLPLYTADA TGPKHMNIKV TRAKLESLVE
DLVNRSIEPL KVALQDAGLS VSDIDDVILV
GGQTRMPMVQ KKVAEFFGKE PRKDVNPDEA
VAIGAAVQGG VLTGDVKDVL LLDVTPLSLG
IETMGGVMTT LIAKNNTIPT KHSQVFSTAE DNQSAVTIHV
LQGERKRAAD NKSLGQFNLD GINPAPRGMP
QIEVTFDIDA DGILHVSAD KNSGKEQKIT IKASSGLNED
EIQKMVRDAE ANAEADRKFE ELVQTRNQQD
HLLHSTRKQV EEAGDKLPAD DKTAIESALT
ALETALKGED KAAIEAKMQE LAQVSQKLME
IAQQQHAQQQ TAGADASANN AKDDDVVDAE
FEEVKDKK

Amino acids 1 to 638

Specifications

Our **Abpromise guarantee** covers the use of **ab51121** 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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.

pH: 7.50

Constituents: 0.077% DTT, 0.395% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

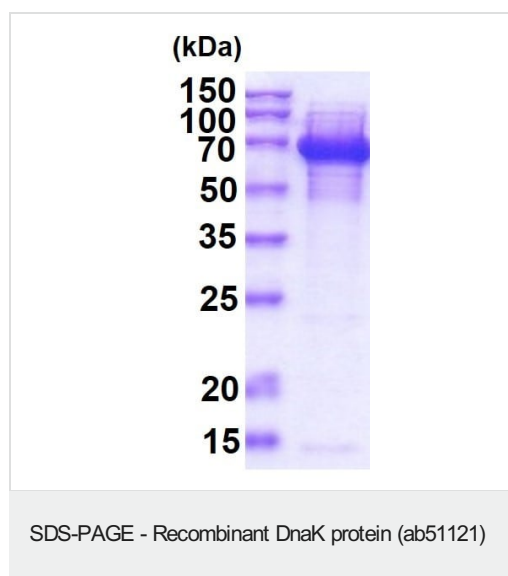
Relevance

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



15% SDS-PAGE

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