

Datasheet for ABIN934889

DnaK (AA 1-638), (full length) Protein**1** Image[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	DnaK
Protein Characteristics:	AA 1-638, full length
Origin:	All Species
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Sequence: MGKIIIGIDLG TTNSCVAIMD GTPRVLENA EGDRTTPSII AYTQDGETLV GQPAKRQAVT
NPQNTLFAIK RLIGRRFQDE EVQRDVSIMP FKIIAADNGD AWVEVKGQKM APPQISAEVL
KKMKKTAEDY LGEPVTEAVI TVPAYFNDAQ RQATKDAGRI AGLEVKRIIN EPTAAALAYG
LDKGTGNRTI AVYDLGGGTF DISIIEIDEV DGEKTFEVL TNGDTHLGGE DFDSRLINYL
VEEFKKDQGI DLRNDPLAMQ RLKEAAEKAK IELSSAQQT D VNLPHYITADA TGPKHMNIKV
TRAKLESLVE DLVNRSEIPL KVALQDAGLS VSDIDDVILV GGQTRMPMVQ KKVAEFFGKE
PRKDVNPDEA VAIGAAVQGG VLTGDVKDVL LLDVTPLSLG IETMGGVMTT LIAKNTTIPT
KHSQVFSTAE DNQSAVTIHV LQGERKRAAD NKSLGQFNLD GINPAPRGMP QIEVTFDIDA
DGILHVSAD KNSGKEQKIT IKASSGLNED EIQKMVRDAE ANAEADRFELVQTRNQGD
HLLHSTRKQV EEAGDKLPAD DKTAIESALT ALETALKGED KAAIEAKMQE LAQVSQKLME
IAQQQHAQQQ TAGADASANN AKDDDVVDAE FEEVKDKK

Characteristics: Purified recombinant E.coli DnaK protein
Expression System: E.coli

Product Details

Molecular weight on SDS-PAGE will appear higher.

Purity: > 95 % pure

Target Details

Target: DnaK

Background: DNAK, originally identified for its DNA replication by bacteriophage in E. coli is the bacterial hsp70 chaperone. The protein coding region of the substrate binding domain of DNAK (amino acids 385-546) was amplified by PCR and cloned into an E. coli expression vector. The substrate binding domain of DNAK was overexpressed in E. coli and the recombinant protein was purified to apparent homogeneity by using conventional column chromatography techniques. Additional amino acid(Met) is attached at N- terminus.

Alternative Names: grpF protein, seg protein, , Heat shock protein 70 protein, HSP70 protein, dnaK protein, Chaperone Hsp70 protein, groP protein, Chaperone protein dnaK protein, Heat shock 70 kDa protein protein, Co chaperone with DnaJ protein

Molecular Weight: 69 kDa (638 AA)

Application Details

Application Notes: Dnak protein has been used in SDS PAGE and may be suitable for use in other assays to be determined by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: Supplied as a liquid in 25 mM Tris-HCl, pH 7.5, containing 100 mM NaCl, 5 mM DTT, and 10 % glycerol.

Preservative: Dithiothreitol (DTT)

Precaution of Use: This product contains Dithiothreitol: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

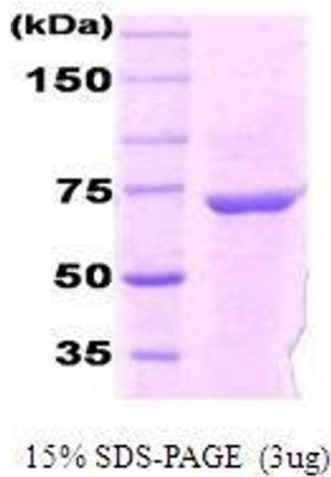
Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: RT/-20 °C

Handling

Storage Comment: Store at 4 °C for short term storage (1/2 weeks). Aliquot and store at -20 °C or -70 °C for long term storage.

Images



SDS-PAGE

Image 1. Figure annotation denotes ug of protein loaded and % gel used.