

Dnak (full length; 1-638), Recombinant, E.coli

Cat.NO.: TP01903

3th Edition

Synonyms:Chaperone protein dnaK, HSP70, groP, grpF, seg

Description:DnaK, originally identified for its DNA replication by bacteriophage ϕ in E. coli is the bacterial hsp70 chaperone. This protein is involved in the folding and assembly of newly synthesized polypeptide chains and in preventing the aggregation of stress-denatured proteins.

Form:Liquid. In 25 mM Tris-HCl buffer (pH 7.5) containing 100 mM NaCl,5 mM DTT, 10% glycerol

Molecular Weight:69kDa (638aa)

Sequences:

MGKIIIDLGTTNSCVAIMDGTTPRVLENAEGDRTPPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQD
EEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATK
DAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIIDEVDGEKTFEVLATNGDTHLGGEDFDS
RLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDL
VNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKD
VLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAP
RGMPQIEVTFDIDADGILHVSADKNSGKEQKITIKASSGLNEDEIQKMVRDAEANA EADRKFEELVQTRNQGDHLL
HSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASAN
NAKDDDVVDAEFEEVKDKK

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.