



Recombinant strain UTI89 / UPEC dnaK Protein Product Manual

1. Product Basic Information

Product No.: REP06692

Protein Name: Molecular Chaperone Dnak (dnaK)

Aliases: molecular chaperone Dnak

UniProt ID: Q1RGI8

UniProt Link: <https://www.uniprot.org/uniprotkb/Q1RGI8/entry>

Species Source: Escherichia coli (strain UTI89 / UPEC)

Expression System: E.coli

Protein Length: Full Length (1-638aa)

Molecular Weight: 73.1 kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (1-638aa)

MGKIIIGIDLGTNSCVAIMDGTTPRVLENAEGDRTPPSIIAYTQDGETLVGQPAKRQA
VTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQI
SAEVLKKMKKTAEDYLGEPTVAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPT
AAALAYGLDKGTGNRTIAVYDLGGGTDFDISIIEIDEVDGEKTFEVLATNGDTHLGGED
FDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTVDNLPYITAD
ATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRM
PMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLVLLDVTPLSLGIET
MGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLD
GINPAPRGMPQIEVTFDIDADGILHVSADKNSGKEQKITIKASSGLNEDEIQKMVRD
AEANAEADRFEEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALET
ALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDDVVDA
EFEEVKDKK

3. Storage Buffer

Liquid Delivery Form: Tris-based buffer with 50% glycerol.

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant strain UTI89 / UPEC dnaK full length protein (1-638aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. dnaK, also known as molecular chaperone DnaK, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.