

Recombinant Enterobacteria phage T7 Helix-destabilizing protein

Catalog No: #AP72999

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Package Size: #AP72999-1 20ug #AP72999-2 100ug #AP72999-3 1mg

Description

Product Name	Recombinant Enterobacteria phage T7 Helix-destabilizing protein
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-232aaSequence Info:Full Length
Accession No.	P03696
Uniprot	P03696
GeneID	1261080;
Calculated MW	25.7 kDa
Tag Info	NO-tagged
Target Sequence	MAKKIFTSALGTAEPYAYIAKPDYGNEERGFGNPRGVYKVDLTIPNKDPRCQRMVDEIVKCHEEAYAAAVEEY EANPPAVARGKKPLKPYEGDMPFFDNGDGTTFKFKCYASFQDKKTKETKHINLVVDSKGGKMMEDVPIIGGG SKLKVKYSLVPYKWNTAVGASVKLQLESVMLVELATFGGGEDDWADEVEENGYVASGSAKASKPRDEESWD EDDEESEEADEDGDF
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Single-stranded DNA-binding protein that eliminates secondary structure in long ssDNA formed on the lagging strand of the replication fork. Stimulates DNA polymerase activity and increases the efficiency of RNA primer synthesis by interacting with the DNA polymerase and the helicase,primase protein gp4. Disrupts loops, hairpins and other secondary structures present on ssDNA to reduce and eliminate pausing of viral DNA polymerase at specific sites during elongation.

References

Essential residues in the C terminus of the bacteriophage T7 gene 2.5 single-stranded DNA-binding protein.Marintcheva B., Hamdan S.M., Lee S.J., Richardson C.C.J. Biol. Chem. 281:25831-25840(2006)Research Topic:Others

Note: This product is for in vitro research use only