

ATP-dependent DNA helicase dda Protein, Enterobacteria phage T4, Recombinant (His)

General Information

Synonyms: DNA 5'-3' helicase Dda; dda; sud; ATP-dependent DNA helicase dda

Protein Construction: 1-439 aa

Species: Enterobacteria phage T4

Expression Host: E. coli

Accession: P32270

Molecular Weight: 54.0 kDa (predicted)

AA Sequence: MTFDDLTEGQKNAFNIVMKAIKEKKHHVTINGPAGTGKTTLTKFIEALISTGGTGIIAAPTHAAKKILSKLSGKE
ASTIHSILKINPVTYEENVLFEQKEVPDLAKCRVLICDEVSMYDRKLFKILLSTIPPWCTIIGIGDNKQIRPVEPGEN
TAYISPFTHKDFYQCELTEVKRSNAPIIDVATDVRNGKWNVDKVVVDGHGVRGFTGDTALRDFMVNYFSIVKS
LDDL FENRVMAFTNKSVDKLNLSIIRKKIFETDKDFIVGEIIVMQEPLFKTYKIDGKPVSEIIFNNGQLVRIEAEYTS
TFVKARGVPGEYLIRHWDLTVETYGDDEYYREKIKIISSEELYKFNLFLAKTAETYKNWNKGGKAPWSDFDW
AKSQFSKVKALPASTFHKAQGMMSVDRAFIYTPCIHYADVELAQQLLYVGVTRGRYDVFYV

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

DNA helicase that stimulates viral DNA replication and recombination. Plays a role in T4 DNA replication initiation by selecting and activating DNA origins. Acts by dissociating and reassociating with the DNA molecule being unwound. Unwinds DNA as a monomer in a 5'-to-3' direction at a rate of 250 bp/s and can efficiently displace proteins from the DNA.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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