

DNA Repair, Replication, Recombination

DNA Polymerase 4 of *Sulfolobus solfataricus* (Dpo4)

Molecular Mass: 42 kDa

Catalog #	Size	Price
23	5 μ g	\$500

Description

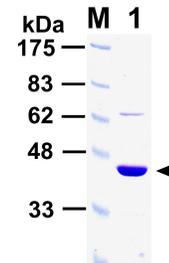
Dpo4 is DNA polymerase 4 of the thermophilic archaea *Sulfolobus solfataricus*. It is a DinB or human Polk homologue. As a member of the Y family DNA polymerases, Dpo4 is able to perform translesion synthesis and is a low fidelity DNA polymerase in copying undamaged DNA. Dpo4 is active at high temperatures.

Reaction Buffer

25 mM potassium phosphate (pH 7.0), 5 mM MgCl₂, 5 mM DTT, 100 μ g/ml BSA, 10% glycerol, 50-100 μ M dNTPs.

Dilution Buffer

25 mM Tris-HCl (pH 7.5), 2.5 mM β -mercaptoethanol, 50% glycerol.



Purified *S. solfataricus* DNA polymerase 4. The protein (810 ng) was analyzed by electrophoresis on a 10% SDS-polyacrylamide gel and visualized by staining with Coomassie blue. The arrowhead indicates the Dpo4 protein band. Protein size markers (lane M) are indicated on the left.