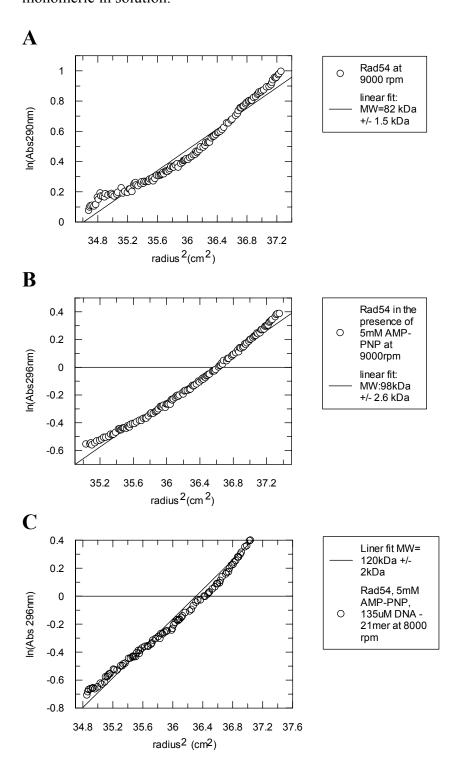
Supplementary Figure 5 Analytical ultra-centrifugation indicated that Rad54 is monomeric in solution.



Analytical ultracentrifugation was carried out with 125 μ M dnRad54 Δ N in 50mM Tris 8.0, 2mM DTT, 300mM salt. The calculated molecular weight for dnRad54DN is ~83 kDa. The observed value for dnRad54DN was MW_{obs} ~ 82 +/- 1.5kDa (A). Addition of 5mM AMP-PNP and 10mM MgCl₂ gave a MW_{obs} ~ 98 +/- 2.7kDa (B). Addition of a double stranded 21mer DNA fragment at 135 μ M (MW~13.6 kDa) in the presence of AMP-PNP (5mM) and Mg²⁺ resulted in a species of MW_{obs} ~ 120 +/- 2kDa (C). Similar results were also obtained in dynamic light scattering (data not shown). On the basis of these experiments it appears that dnRad54 Δ N is a monomer in the presence and absence of AMP-PNP (A,B). Furthermore, the dsDNA fragment appears bound by the enzyme, but does not change the aggregation state (C).