

Fig. S1. The interplay among calcium, magnesium and potassium ions on ATP-N binding to gelsolin. In the absence of divalent cations, the anisotropy of ATP-N $(0.5 \mu M)$ increased with increasing gelsolin concentration and this interaction was potassium ion dependent. The Kds calculated from the binding curves fitted with Eq. 2 showed diminishing affinities with increasing potassium ion concentrations (blue triangles). Inclusion of 1 mM MgCl₂ slightly weakened the affinity of ATP-N for gelsolin (magenta circles) at 100 mM and 120 mM KCl (K, potassium ions, KM, potassium and magnesium ions).