

Fig. S2. Summary of SAXS data and models for n-DH-PH constructs. (A) Scattering profiles for n-DH-PH fragments. Experimental data, fit to *ab initio*, rigid body, and EOM models are shown as *open circles*, *yellow dotted line*, *blue solid line*, and *red dashed line*, respectively. Plots display the logarithm of the scattering intensity as a function of momentum transfer $s = 4\pi\sin(\theta)/\lambda$, where 2θ is the scattering angle and λ is the X-ray wavelength. Experimental SAXS profiles were appropriately displaced along the logarithmic axis for better visualization and overlaid with corresponding fits. (B) Distance distribution function, $P(r)$, of isolated n-DH-PH and n-DH-PH 4R (*black and blue dashed lines*, respectively), and n-DH-PH/RhoA complex and n-DH-PH 4R/RhoA (*red and green solid lines*, respectively). (C) Comparison of Kratky plots of n-DH-PH (*red circle*), with bovine serum albumin (*black circle*), and protein tau (*blue circle*). (D) Rigid body models (BUNCH) superposed onto the *ab initio* models (GASBOR) of isolated n-DH-PH (*left*), and n-DH-PH/RhoA complex (*right*). (E) Rigid body models (BUNCH) superposed onto the *ab initio* models (GASBOR) of isolated n-DH-PH 4R (*left*), and n-DH-PH 4R/RhoA complex (*right*). (F) Radius of gyration distribution for n-DH-PH. Distributions for pools of models are shown as *black and red solid lines*, for the isolated protein and the RhoA complex, respectively. Distributions for selected ensemble of models are shown as *black and red dashed lines*, for the isolated protein and the RhoA complex, respectively. (G) Radius of gyration distribution for n-DH-PH 4R. Distributions for pools of models are shown as *black and red solid lines*, for the isolated protein and the RhoA complex, respectively. Distributions for selected ensemble of models are shown as *black and red dashed lines*, for the isolated protein and the RhoA complex, respectively.

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