

Supplementary information S5 (figure) | Stationary profile of a protein that is phosphorylated by a kinase localized to a supra-molecular structure and dephosphorylated by a homogeneously distributed phosphatase

The relative phosphorylated fraction $c_p(s)/c_p(d)$ declines with the distance d from the kinase that is confined to the spherical structural element of radius s . The steepness of the gradient (reciprocal of the characteristic length) is determined by the parameter α ($\alpha^2 = k_p/D$ is the ratio of the phosphatase activity k_p and the protein diffusivity D).

