

Parametrization of the transport model:

The first term in Eq. (1) is a quadratic function $f(D') = 356.4D'^2$ which is obtained by fitting the data points in Fig. 3. The second term is a quadratic function $g(X) = 150X^2 + 44X + 0.22$ which is obtained by fitting data points of Fig. 7 (see inset) corresponding to a cargo with D = 10 nm.

S3 Fig shows a comparison between the transport model of Eq. (1) (solid lines) and the data points from the umbrella sampling simulations (filled circles). The blue data points corresponding to D=10 nm have been used for fitting. The black data points correspond to D=7.3 nm, showing excellent agreement with the predictions (green solid lines) of the transport model.

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