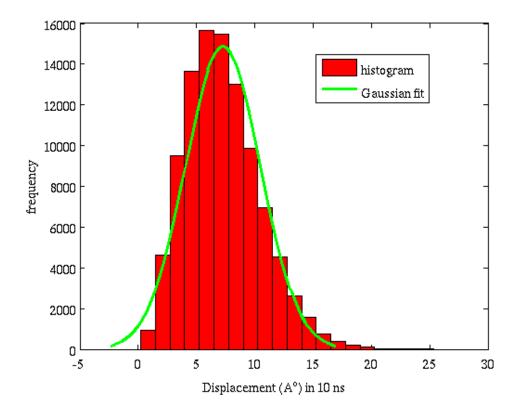
**Figure S1(a):** Probability distribution function for the displacement of GFP in 10 ns. The green curve in the figure shows the Gaussian fit of the probability distribution function.



**Figure S1(b):** Probability distribution function for the displacement of GFP in 100 ns. The green curve in the figure shows the Gaussian fit of the probability distribution function.

