

## **Supporting Information**

### **Antimicrobial silver nanoclusters bearing biocompatible phosphorylcholine based zwitterionic protects**

Arunee Sangsuwan<sup>1</sup>, Hideya Kawasaki<sup>2,4</sup> Yoshinobu Matsumura<sup>3,4</sup> and Yasuhiko Iwasaki<sup>\*2,4</sup>

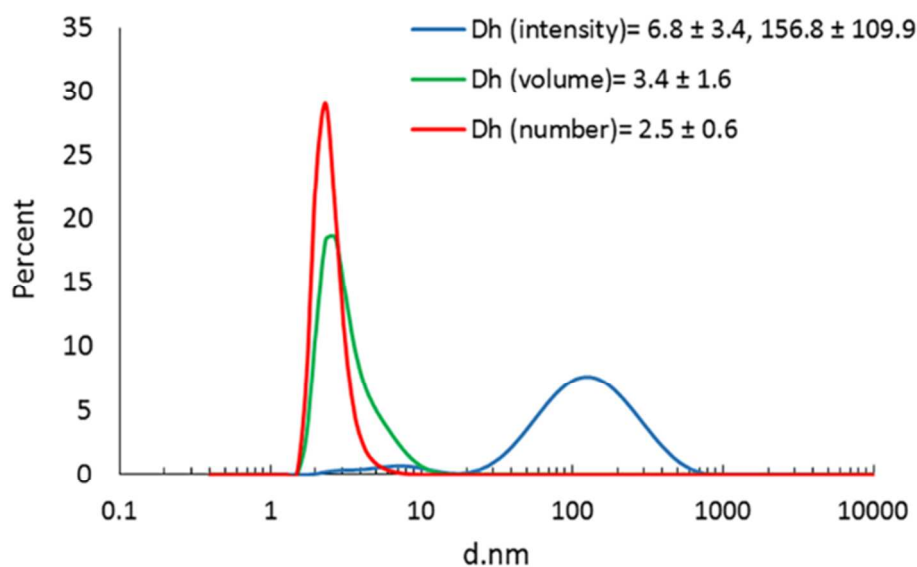
<sup>1</sup> Graduate School of Science and Engineering, Kansai University, 3-3-35 Yamate-cho, Suita-shi, Osaka, 564-8680, Japan

<sup>2</sup> Department of Chemistry and Materials, Faculty of Chemistry, Materials and Bioengineering, Kansai University, 3-3-35 Yamate-cho, Suita-shi, Osaka, 564-8680, Japan, Tel: +81-6-6368-0090, Fax: +81-6-6368-0090, E-mail: yasu.bmt@kansai-u.ac.jp

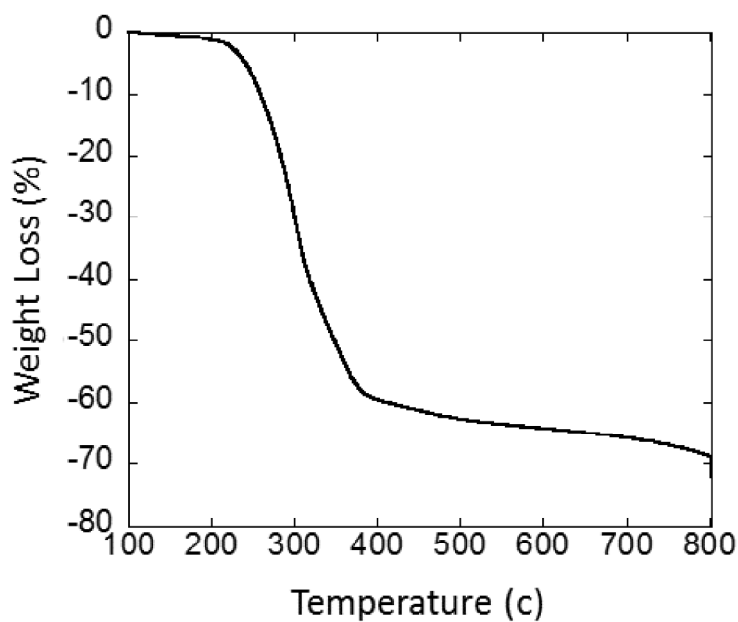
<sup>3</sup> Department of Life Science and Biotechnology, Faculty of Chemistry, Materials and Bioengineering, Kansai University, 3-3-35 Yamate-cho, Suita-shi, Osaka, 564-8680, Japan

<sup>4</sup> ORDIST, Kansai University 3-3-35 Yamate-cho, Suita-shi, Osaka, 564-0836, Japan

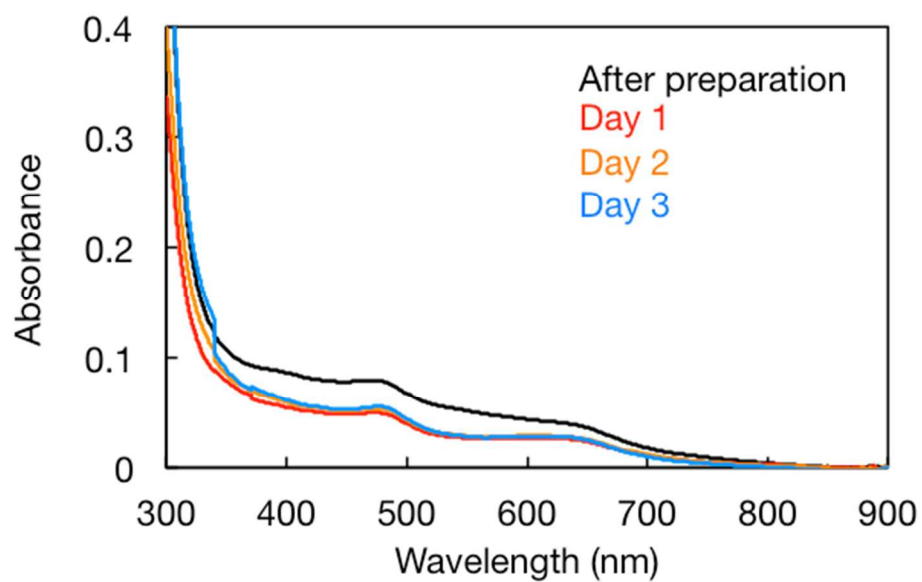
\*Corresponding author



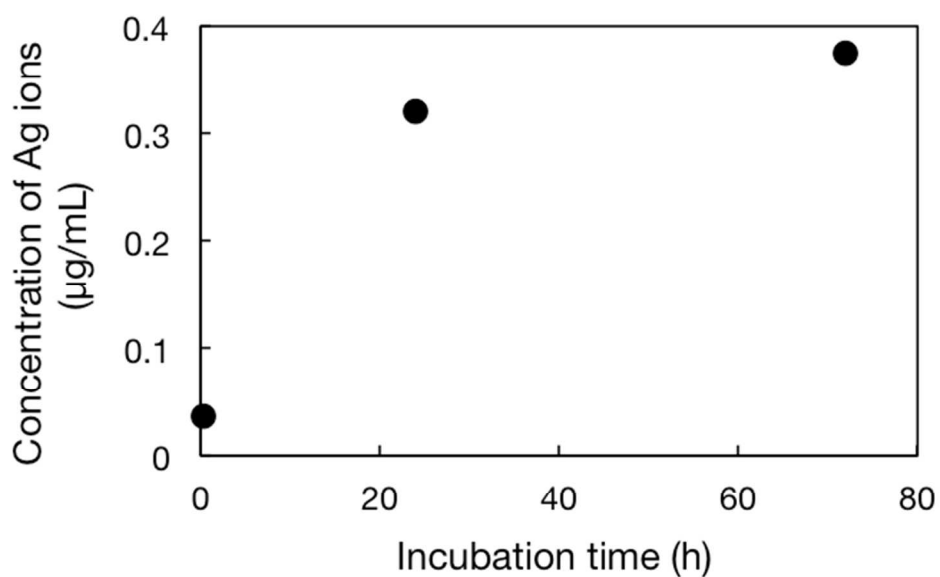
**Figure S1** Characterization of MPC-AgNPs (Ag:MPC-SH = 1:2.5) by DLS; DLS histograms of intensity-averaged (Dh (intensity)), volume-averaged (Dh (volume)), number-averaged hydrodynamic diameters (Dh (number))



**Figure S2** TGA of PC-AgNCs (Ag:PC-SH = 1:2.5)



**Figure S3** UV-Vis absorption spectra of PC-AgNCs suspension prepared in water



**Figure S4.** Change in the concentrations of silver ions released from PC-AgNCs (Ag:PC-SH = 1:2.5) into an aqueous medium as a function of the incubation time.