Supporting Information

CpG Incorporated DNA Microparticles
for Elevated Immune Stimulation for Antigen Presenting Cells

Heejung Jung¹§, Dajeong Kim²§, Yoon Young Kang¹, Hyejin Kim², Jong Bum Lee²*, and Hyejung Mok¹*

¹ Department of Bioscience and Biotechnology, Konkuk University, 120 Neungdong-ro, Gwangjin-gu, Seoul 05029, Republic of Korea

² Department of Chemical Engineering, University of Seoul, 163 Seoulsiripdaero, Dongdaemun-gu, Seoul 02504, Republic of Korea

§ The authors are equally contributed.

* Corresponding authors

tel: +82-2-450-0448, e-mail: hjmok@konkuk.ac.kr

tel: +82-2-450-0448, e-mail: jblee@uos.ac.kr
Fig. S1 A) SEM images and B) Average diameter of CpG-based DNA-MPs including DNA-MP-0.5, DNA-MP-0.8, and DNA-MP-1.0 prepared at different circular DNA: dNTP ratios.
Fig. S2 SEM images of GpC-based DNA-MPs including DNA-MP-0.5 and DNA-MP-1.0.
Fig. S3 FACS analysis of BMDMs after staining with PE-labeled F4/80 antibody and FITC-labeled CD-206 antibody.
Fig. S4 Fluorescence intensities of Cy5 labeled DNA-MP-1.0, compared to non-labeled DNA-MP-1.0.
**Fig. S5** Confocal microscopy images of cells treated with Cy5 labeled DNA-MP-1.0 after staining early endosome as well as early phagosome using FITC-labeled EEA1 antibodies.
**Fig. S6** Cell viability of DNA-MP-0.5 and DNA-MP-1.0 at different concentrations for RAW 264.7 cells.