Supporting Information for

Enhanced Cytokine Secretion from Primary Macrophages due to Dectin-1 Mediated Uptake of CpG DNA/β-1,3-glucan Complex

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Figure S1. Complexation of CpG-dA₆₀ and F-SPG confirmed by 12% polyacrylamide gel before (A) and after (B) stained with SYBR Gold.

Figure S2. The weight-average molecular weight ($M_w$) of the complex determined by GPC equipped with light scattering (LS) detector.

Figure S3. Fluorescence microscopic observation for the murine macrophages after administered with the uncomplexed mixture of R-CpG and F-SPG.

Figure S4. Dose dependences of CpG-dA₆₀ in IL-12 production for murine macrophages.

Figure S5. The comparison of induced IL-12 between the mixture and the complex.
Figure S1. Complexation of CpG-dA₆₀ and F-SPG confirmed by 12% polyacrylamide gel before (A) and after (B) stained with SYBR Gold.
Figure S2. The weight-average molecular weight ($M_w$) of the complex determined by GPC equipped with light scattering (LS) detector.
Figure S3. Fluorescence microscopic observation for the murine macrophages after administered with (right) and without (left) the uncomplexed mixture of R-CpG and F-SPG (CpG: 0.5 µM, [mG]/[dA] = 5). The cells were incubated for 0.5 h and stained with DAPI.
Figure S4. Dose dependences of CpG-dA$_{60}$ in IL-12 production for murine macrophages when CpG-dA$_{60}$ itself (CpG; 0.13, 0.5, 1.0 µM) and the complex ([mG]/[dA] = 5) were applied for 24 hours ($n = 3$).
Figure S5. The comparison of induced IL-12 between control (medium), free SPG, CpG-dA$_{60}$ (CpG; 0.5 μM), the mixture and the complex ($n = 3$). The amount of free SPG treated was the same as that used in the complex ([mG]/[dA]=30) that contained the largest amount of SPG among the complexes. For the comparison between the mixture and the complex, the molar ratio of [mG]/[dA]=5 was used.