Supporting Information

Design of boronic acid-attributed carbon dots on inhibits HIV-1 entry

M.Z. Fahmi,^{ab*} W. Sukmayani,^a S.Q. Khairunisa,^b A.M. Witaningrum,^b D.W. Indriati,^b M.Q.Y. Matondang,^b J.-Y. Chang,^c T. Kotaki,^d and M. Kameoka.^e

- a. Department of Chemistry, Airlangga University, Surabaya 61115, Indonesia.
- b. Institute of Tropical Disease, Airlangga University, Surabaya 61115, Indonesia.
- Department of Chemical Engineering, National Taiwan University of Science and Technology, Taipei 10607, Republic of China
- d. Center of Infectious Disease, Graduate School of Medicine, Kobe University, Hyogo 654-0142, Japan
- e. Department of International Health, Kobe University Graduate School of Health Science, Kobe 654-0142, Japan.

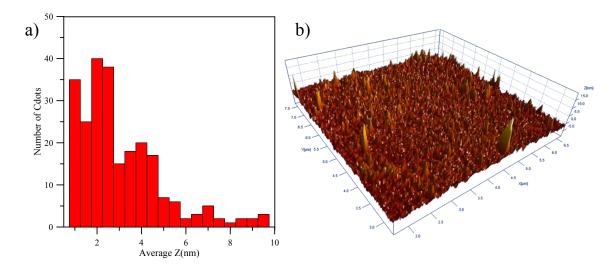


Figure S1. AFM data of as-prepared Cdots including histogram its size distribution (a) and AFM image of adjusted Cdots took from top (b).

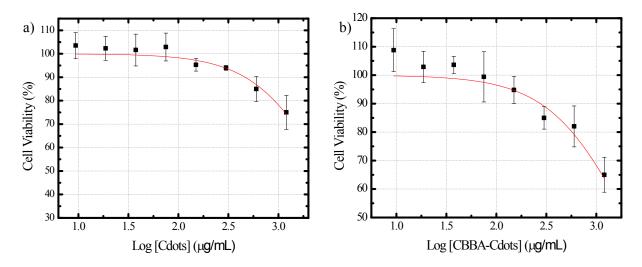


Figure S2. Comparison cell viability of MOLT-4 cancer cells after 24 h incubation with Cdots (a) and CBBA-Cdots (b). CC_{50} values can be determined on red fitted curve, which show at 3.46 µg/mL and 3.29 µg/mL for each log [Sample], respectively, or 2901.2 µg/mL and 1991.9 µg/mL for each [Sample], respectively. Red line indicates fitting curve resulted on doses response mode on Origin software.

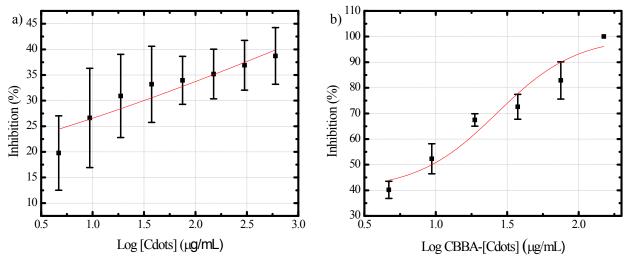


Figure S3. Graph of inhibition level of Cdots (a) and CBBA-Cdots (b) to against MT4/HIV-1 infection after 24 h incubation. IC₅₀ values can be determined on red fitted curve, which show at 3.97 μ g/mL and 1.43 μ g/mL for each log [Sample], respectively, or 9605.3 μ g/mL and 26.7 μ g/mL for each [Sample], respectively. Red line indicates fitting curve resulted on doses response mode on Origin software.