Supporting information of

## Cell chip device for real-time monitoring of drug release from drug-laden

## microparticles

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Figure S1. Schematic diagram showing the conventional processes using sampling from microfluidic chips and the purpose of this study to implement them in one device.

## < Top Channel>



## < Bottom Channel>



Figure S2. Design of the cell chip device. The top channel has two types of chambers with a diameter of 8mm. The Bottom channel contains a drug-loaded microparticle trap space. There is a micro-sized support for drug capture.



Figure S3. Photograph of the fabricated cell chip device.



Figure S4. Photograph of the device which perfectly trapped drug-loaded microparticles in the bottom channel



Figure S5. Picture of the fabricated device placed in a real-time measurement system.



Figure S6. (A) UV absorption spectrum of DOX solution according to the concentration. (B) A standard curve of the DOX solution at 492nm wavelength.