Regioselective Molecularly Imprinted Reaction Field for [4+4] Photocyclodimerization of 2-Anthracenecarboxylic Acid

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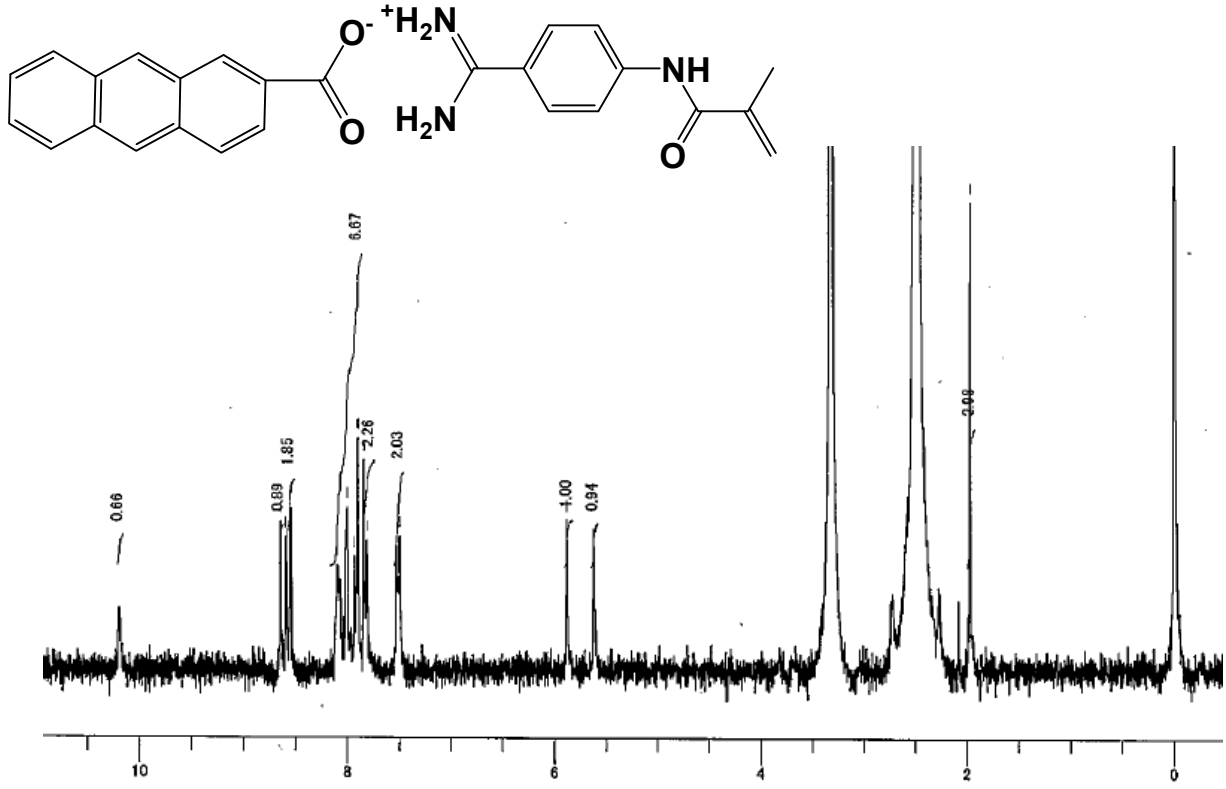

Figure S1 ^{1}H-NMR spectrum of the obtained template molecule in DMSO-d_6

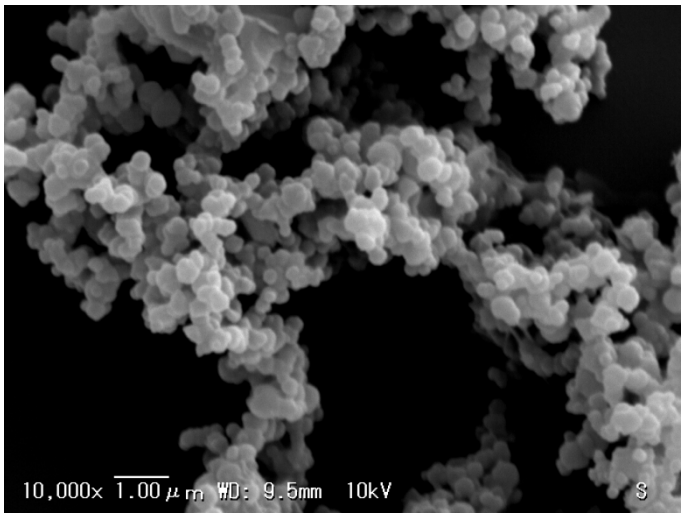

Figure S2 SEM image of the MIP particles prepared by the precipitation polymerization of template molecules and EGDM with V-70 as an initiator in methanol at 30°C for 24 h.

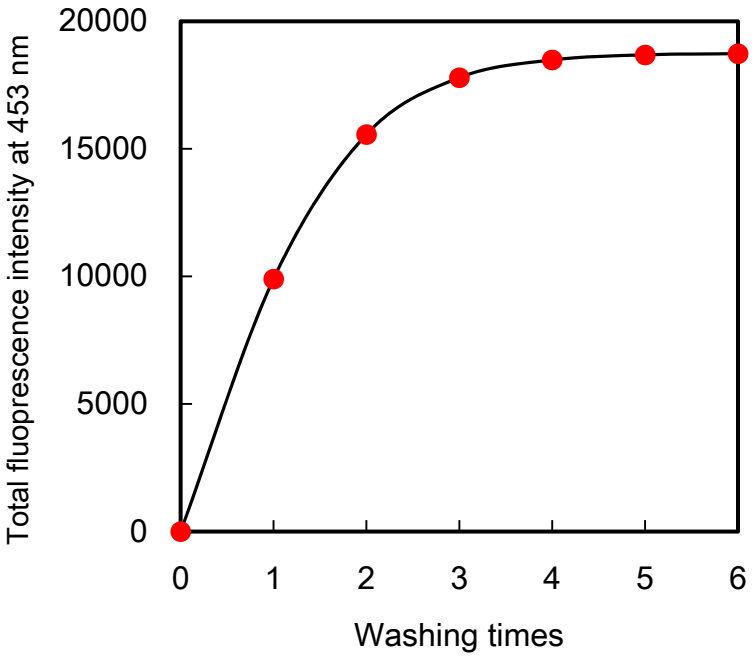

Figure S3　Total fluorescence intensities at 453 nm (Excitation wavelength: 365 nm) at various washing times of the obtained polymer particles using centrifugation with methanol containing 10 % acetic acid.

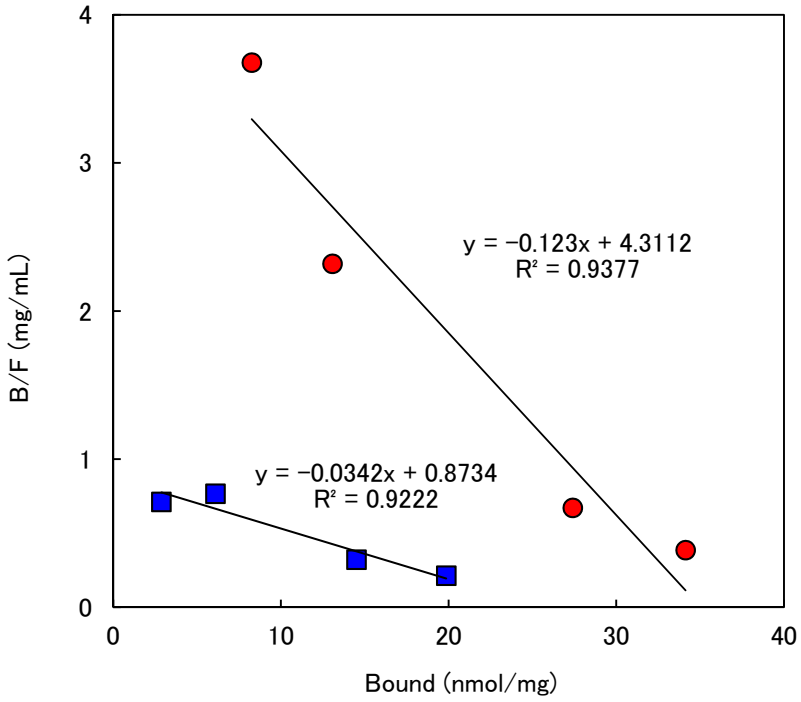

Figure S4　Scatchard plots of binding experiments of 2-AC and 9-AC towards MIP particles.

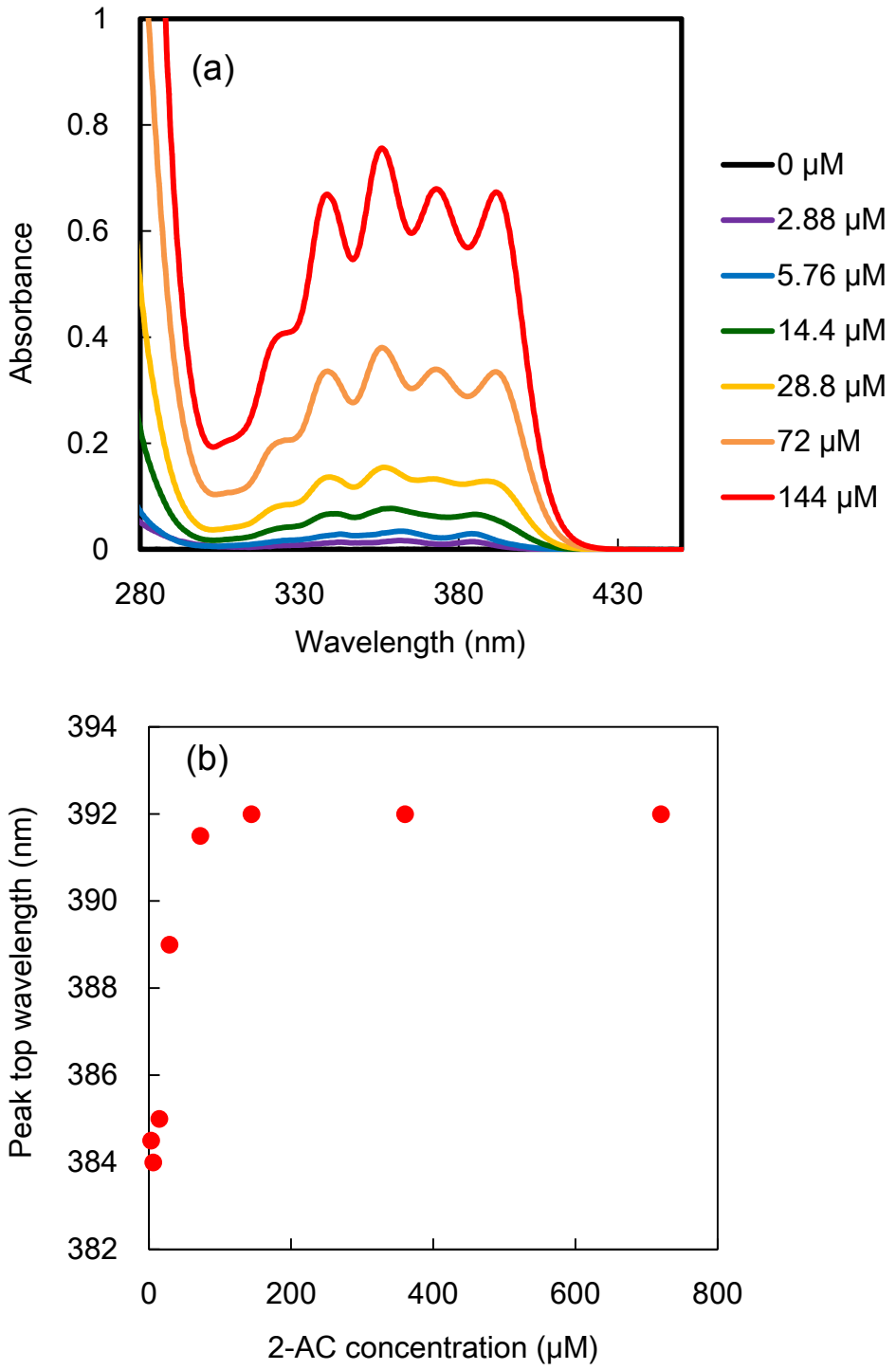

Figure S5 UV-Vis spectra (a) and the peak top wavelength (b) of various concentrations of 2-AC in methanol

Table1 S1 The molar fractions for the *anti*-HT, *syn*-HT, *anti*-HH, and *syn*-HH dimers caused upon photocyclodimerization in the presence and absence of MIP particles; average of three independent runs

	anti-HT (%)	*syn*-HT (%)	*anti*-HH (%)	*syn*-HT (%)
With MIP	35.0±0.5	27.1±0.9	20.0±0.9	17.0±0.5
Without MIP	32.8±0.8	26.4±0.7	21.4±0.2	19.4±0.3