Electronic Supplementary Material (ESI) for Analyst.

Table S1 Determination of FA in a kind of commercial FA tablet using HMSM-CTAB-supported organogel electrode and DPSV technique by the standard addition method (n=6).

Background value/ μM/L	Addition/ μM/L	Measured value/ μM/L	Recovery / %	Average recovery ± SD /%	RSD / % (n=6)
1.79	18	18.37	92.1	92.4 ± 1.40	1.52
		18.58	93.3		
		18.49	92.8		
		18.71	94.0		
		17.98	89.9		
		18.42	92.4		

Figure captions:

Fig. S1 Scheme of the homemade four-electrode electrochemical cell.

Fig. S2 DPVs representing the transfer of 1 mM FA^- at the HMSM-supported W/DCH interface at pH 7.2 (purple trace), pH 8.4 (red trace), pH 9.6 (green trace), and pH 10.8 (blue trace).

Fig. S3 SEM images of the surface of PET-templated HMSM after the experiment conducted under the condition of pH~11.0.

Fig. S4 CVs obtained at the W/DCH interface supported by (A) HMSM and (B) HMSM-CTAB in the absence of FA^- (solid line) and presence of 1 mM FA^- at different scan rates 5, 10, 15, 25, 50, and 75 mV s^{-1} (from inner CVs to outer CVs); The insets in (C) and (D) are the corresponding plots of peak current for FA^- from W to DCH vs. $v^{1/2}$.

Fig. S5 Continuous CVs corresponding to the IT of 1 mM FA^- at the HMSM-CTAB-supported W/DCH interface within ten hours at scan rate (v): 5 mV s^{-1}.

Fig. S6 CVs of 4 μM FA^- across the HMSM-CTAB-supported water/organogel interface at increasing scan rates of 5, 10, 15, 20, 25 and 30 mV s^{-1} (from inner CVs to outer CVs). CVs obtained at water/organogel interfaces in the absence of FA^- at scan rate of 5 mV s^{-1} (solid line). The inset is the corresponding plots of peak current for FA^- from organogel to water vs. $v^{1/2}$.

Fig. S7 Influence of the preconcentration time on the DPSV of 4μM FA^- at the HMSM-CTAB-supported water/organogel interface: DPSV of 0, 10, 30, 60, 90, and 150s preconcentration times (from bottom to top). Inset: relationship between peak current and preconcentration time.

Fig. S8 DPSV of FA^- at the HMSM-supported water/organogel interface: DPSV response of 1, 5, 9, 18, and 24 μM FA^- (from bottom to top). Inset: calibration curve of peak current vs. concentration of FA.

Fig. S9 CVs obtained at the water/organogel interface in the presence of 4 μM FA^- by using four different HMSM-CTAB-supported organogel electrodes at scan rate (v): 5 mV s^{-1}.

Fig. S10 Calibration curve for FA^- transfer at the water/organogel meso-interface in the presence of SCN^- and ClO_4^-.

Fig. S11 DPSV curve of prepared sample solution of FA under physiological conditions obtained by using HMSM-CTAB-supported organogel electrode for the determination of FA in a kind of commercial FA tablet.

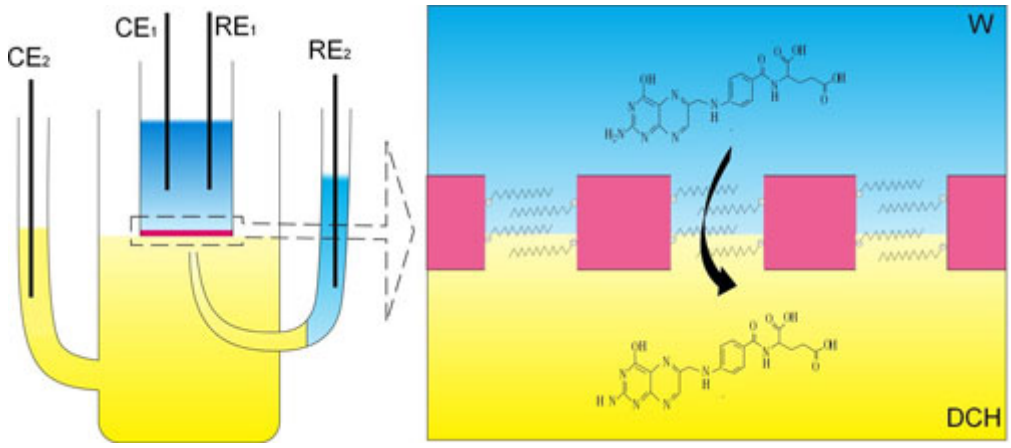

Fig. S1

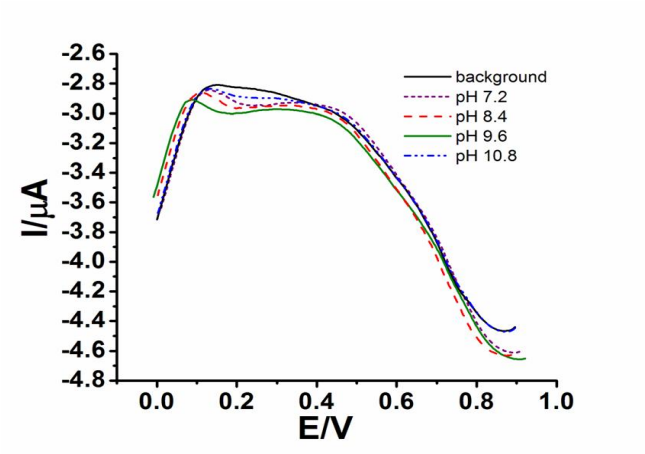
background
pH 7.2
pH 8.4
pH 9.6
pH 10.8
I/μA
E/V
-2.6
-2.8
-3.0
-3.2
-3.4
-3.6
-3.8
-4.0
-4.2
-4.4
-4.6
-4.8
0.0
0.2
0.4
0.6
0.8
1.0

Fig. S2

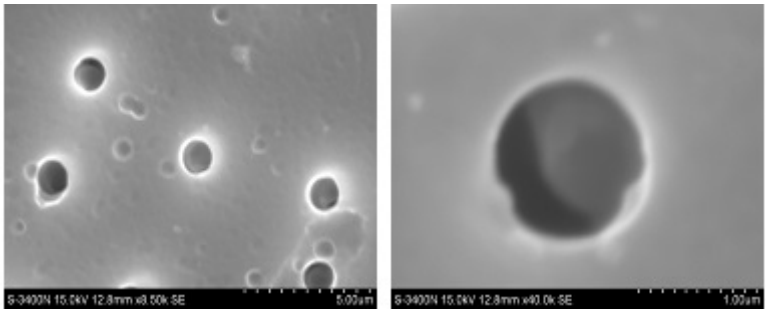
S-3400N 15.0kV 12.8mm x8.50k SE
5.00μm
S-3400N 15.0kV 12.8mm x40.0k SE
1.00μm

Fig. S3

Fig. S4

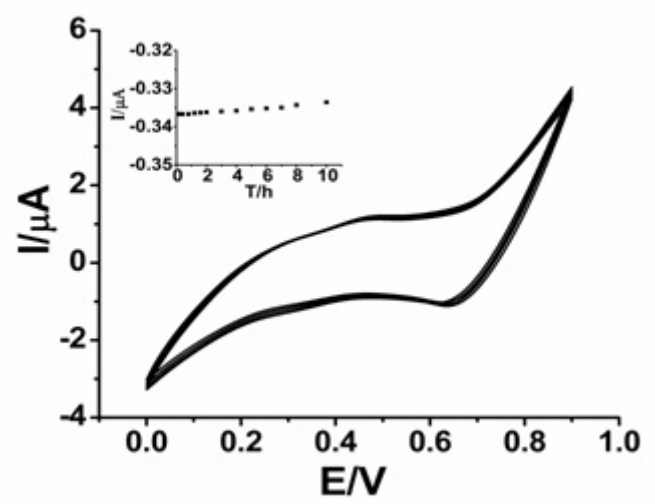

Fig. S5

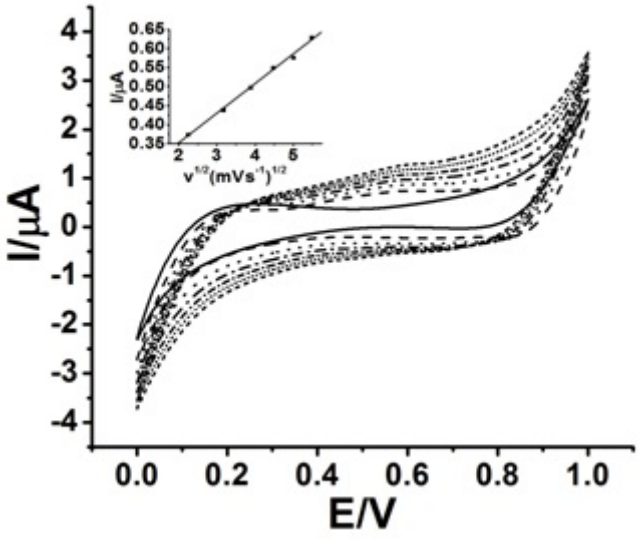

Fig. S6

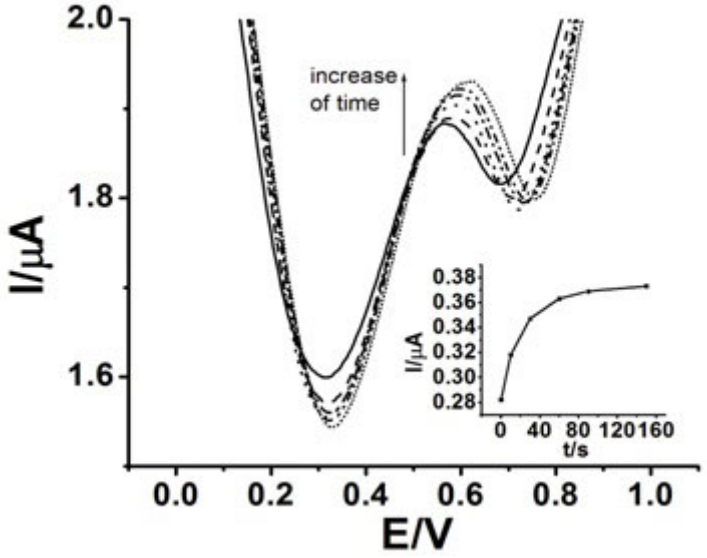
2.0
1.8
1.6
I/μA
0.0
0.2
0.4
0.6
0.8
1.0
E/V
increase
of time
0.38
0.36
0.34
0.32
0.30
0.28
I/μA
0
40
80
120
160
t/s

Fig. S7

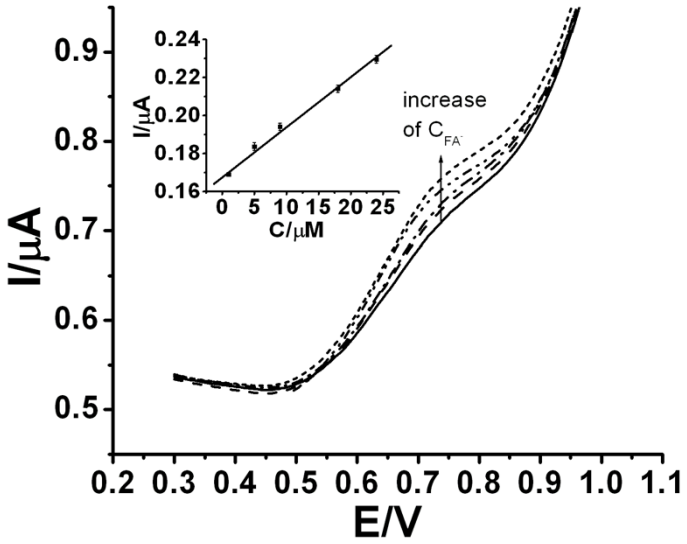
0.9
0.8
0.7
0.6
0.5
I/μA
0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1
E/V
0.24
0.22
0.20
0.18
0.16
I/μA
0 5 10 15 20 25
C/μM
increase
of C

Fig. S8

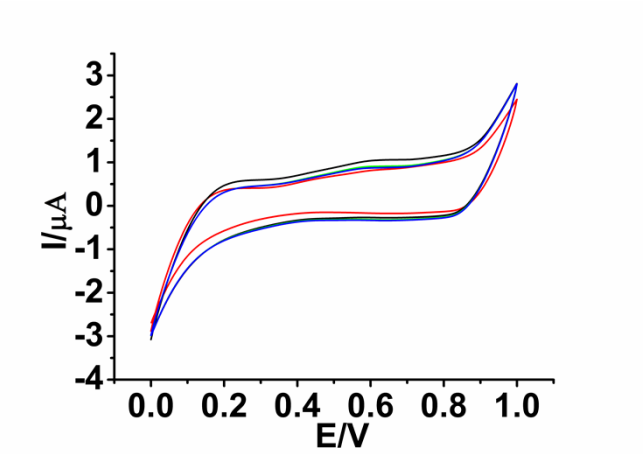

Fig. S9

Fig. S10

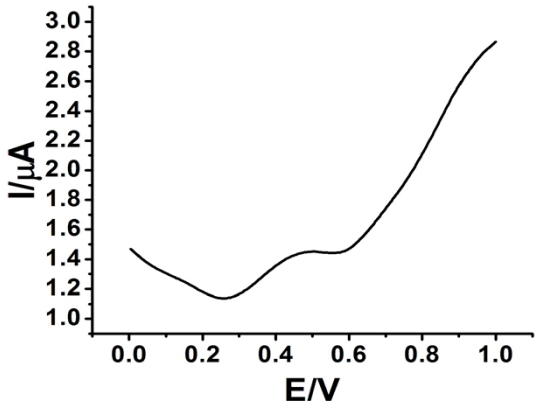

Fig. S11