

Supplementary Figures

Fig.S1

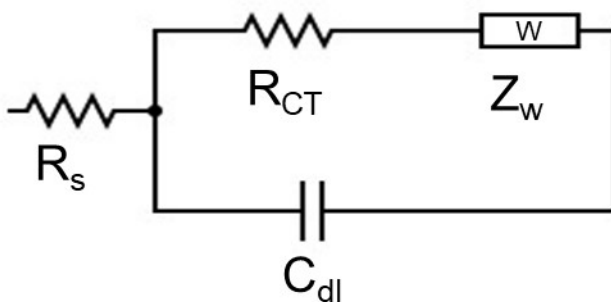


Figure S1 Randles equivalent circuit used to characterise E-MIPs, comprising a charge transfer resistance (R_{CT}) between the solution and the electrode surface, solution resistance (R_s), the Warburg impedance (Z_W , associated with the diffusion of the electroactive species from the solution towards the electrode surface), and the double layer capacitance (C_{dl}).

Fig.S2a

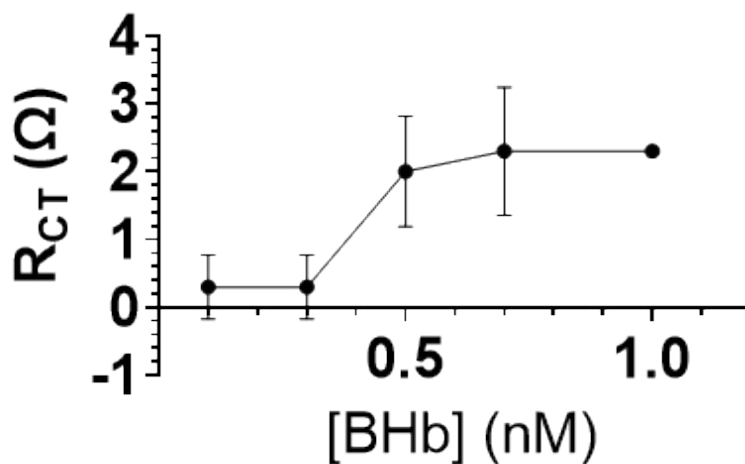


Fig.S2b

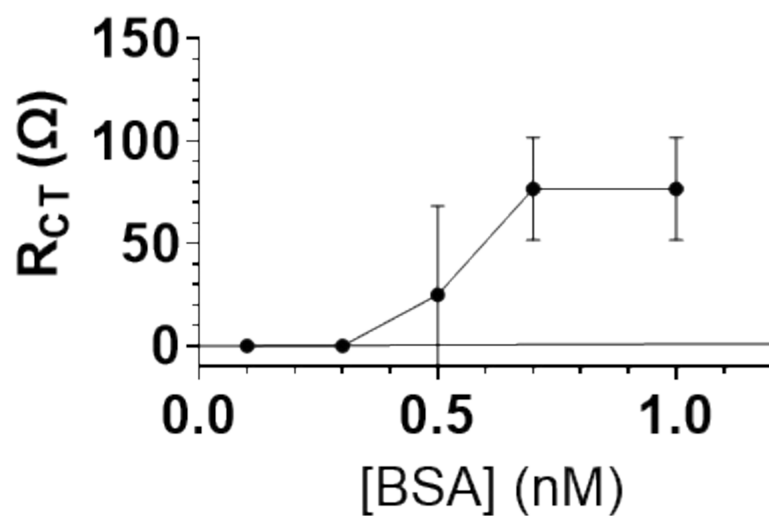


Figure S2a BHb determination using NIP-modified BT-Au electrode (giving imprinting factor, $IF = 146:1$ at 1 nM); **Figure S2b** BSA determination using BHb MIP-modified BT-Au electrode (giving selectivity factor, $\alpha = 6$ at 1 nM). Data represents mean \pm S.E.M., $n = 3$.

Sample	Number of measurements	Average Roughness R_a / nm	RMS Roughness R_q / nm
AT-Au	4	388 ±105	499 ±127
AT-Au NIP	2	399 ±6	542 ±4
AT-Au MIP	4	327 ±49	439 ±87
BT-Au	4	504 ±45	636 ±52
BT-Au NIP	1	489	623
BT-Au MIP	3	533 ±82	672 ±106

Table S1 Roughness data obtained for AT-Au and BT-Au electrodes, both before and after coating with polymers. Uncertainties are calculated from the standard deviations of the measurements.