

# Core-corona Magnetic Nanospheres Functionalized with Zwitterionic Polymer Ionic Liquid for Highly Selective Isolation of Glycoprotein

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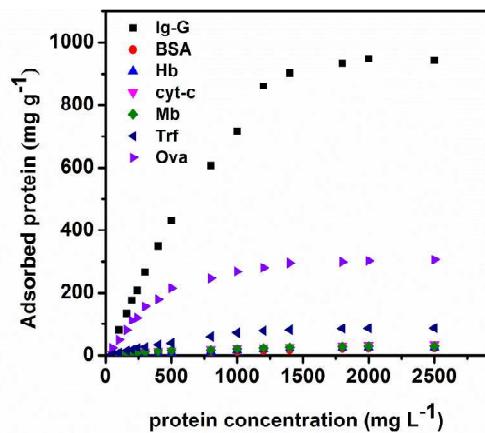


Figure S1. The adsorption isotherm of Ig-G, BSA, Hb, cyt-c, Mb, Trf and Ova on  $\text{Fe}_3\text{O}_4@\text{PCL-PILs}$  nanospheres. Protein solution: 10-2500 mg L<sup>-1</sup>, pH 9; adsorption time: 10 min; the mass of nanospheres: 1.0 mg.  
The maximum adsorption capacities for Ig-G, Ova, Trf, Hb, BSA, cyt-c and Mb are derived to be 1136.4 mg g<sup>-1</sup>, 305.6 mg g<sup>-1</sup>, 86.2 mg g<sup>-1</sup>, 25.6 mg g<sup>-1</sup>, 22.2 mg g<sup>-1</sup>, 36.7 mg g<sup>-1</sup> and 30.5 mg g<sup>-1</sup>, respectively

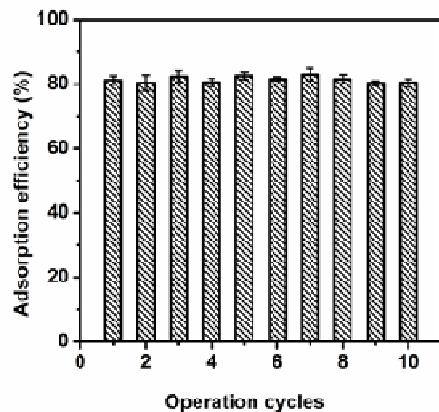


Figure S2. The reusability of  $\text{Fe}_3\text{O}_4@\text{PCL-PILs}$  nanospheres for the circulation of adsorption and desorption of Ig-G. Protein solution: 1.0 mL,  $100 \text{ mg L}^{-1}$ , pH 9; adsorption time: 10 min; magnetic nanospheres: 1.0 mg.