Supporting Information

Thiol-Reactive Star Polymers Display Enhanced Association with Distinct Human Blood Components

Joshua J. Glass,[†] Yang Li,[‡#] Robert De Rose,[†] Angus P.R. Johnston,[‡] Ewa I. Czuba,[‡] Song Yang Khor,[‡] John F. Quinn,[‡] Michael R. Whittaker,[‡] Thomas P. Davis[‡§*] and Stephen J. Kent[†⊥*]

[†] ARC Centre of Excellence in Convergent Bio-Nano Science and Technology, and Department of Microbiology and Immunology, Peter Doherty Institute for Infection and Immunity, The University of Melbourne, Melbourne, VIC 3010, Australia

[‡] ARC Centre of Excellence in Convergent Bio-Nano Science and Technology, and Drug Delivery, Disposition and Dynamics, Monash Institute of Pharmaceutical Sciences, Monash University, Parkville, VIC 3052, Australia

[§] Department of Chemistry, University of Warwick, Gibbet Hill, Coventry, CV4 7AL, UK

[⊥] Melbourne Sexual Health Centre and Department of Infectious Diseases, Alfred Health, Central Clinical School, Monash University, Melbourne, VIC Australia

Present Address

[#] Beijing Laboratory of Biomedical Materials, Beijing University of Chemical Technology, Beijing 100029, China

Corresponding author email: skent@unimelb.edu.au, thomas.p.davis@monash.edu

Table S1. Physical characterization summary of POEGA arms and POEGA star polymers.

Entry	Polymers	M_n [(a)]	M_n [(b)]	PDI [(c)]	D_h (nm)
1	BSPA-POEGA Arm	11500	8800	1.20	_
2	PDSD-POEGA Arm	12000	9800	1.20	_
3	BSPA-POEGA Star	119000	_	1.17	_
4	PDSD-POEGA Star	123000	_	1.18	_
5	BSPA-POEGA Star-Cy5	118000	_	1.24	14 (+/- 0.6 SD)
6	PDSD-POEGA Star-Cy5	120000	_	1.20	17 (+/- 0.9 SD)

[(a)] Determined from GPC using DMAC as the mobile phase against polystyrene calibration standards; [(b)] determined from 1H NMR in CDCl3; [(c)] Determined from Dynamic Light Scattering in 1 mg/mL PBS solution (size from number distribution analysis reported).

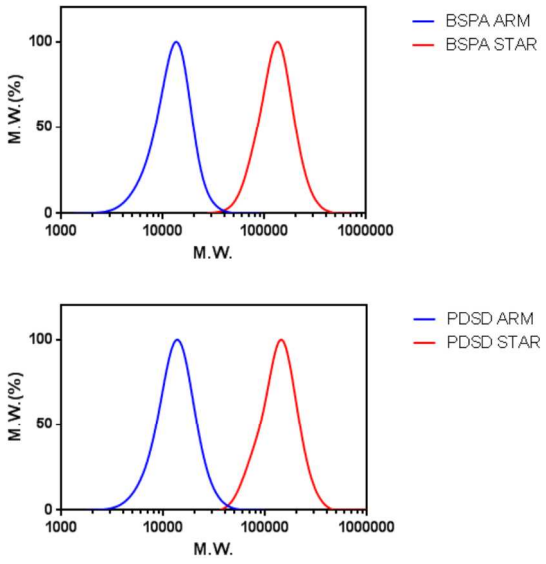

Figure S1. GPC analysis for benzyl (top) and pyridyl disulfide (bottom) functional POEGA arms and the corresponding stars.

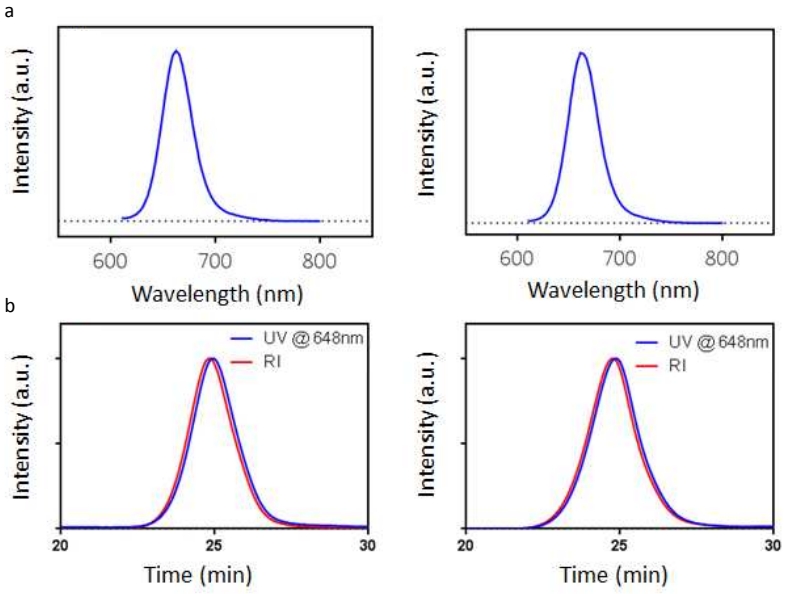

Figure S2. (a) Fluorescence spectra of Cy5 labelled benzyl (left) and pyridyl disulfide (right) peripherally functional POEGA stars. (b) GPC chromatograms for Cy5 labelled benzyl (left) and pyridyl disulfide (right) peripherally functional POEGA stars using RI and UV-vis detection (λ = 648 nm).