Supplementary Material (ESI) for Organic & Biomolecular Chemistry

SUPPORTING INFORMATION

Investigating possible changes in protein structure after dendrimer ligand binding.

F. Chiba G. Mann and L . J. Twyman*

Chemistry Department, University of Sheffield, Sheffield, UK, S3 7HF. Fax: +44 (0)114 2229346; Tel: +44 (0)114 2229560 E-mail: l.j.twyman"Sheffield.ac.uk.

Cytochrome-c Results

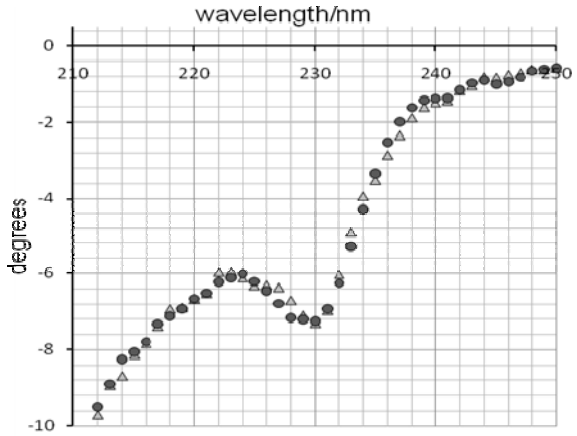

Figure 1: The CD spectra of *cytochrome-c* (dark circles) and the G2.5 dendrimer/*cytochrome-c* complex (light triangles). Measurements recorded at $1x10^{-6}$M in protein and $1x10^{-4}$M in G2.5 dendrimer.

Experimental

Materials **-** All chemicals, reagents and solvents were purchased from Aldrich Cemical Company and used without further purification.

CD experiments - CD spectra were recorded on a Jasco spectropolarimeter model J-810, equipped with Peltier temperature-controller. A Quartz cell of 1cm pathlength was used. Spectra were measured at 50 nm/min, 0.5 nm of data pitch, 1s of response, and a band width of 1 nm. The CD spectrum was recorded in millidegrees of ellipticity as a function of wavelength. Spectral resolution between two consecutive ellipticity readings is 0.5 nm. Solutions were made up in phosphate buffer at pH7.5 (0.1M) and final concentrations of $1x10^{-6}$M in protein and $1x10^{-4}$M and $1x10^{-5}$M in dendrimer. CD spectrum were obtained at 37°C. The effects of temperature on protein structure were determined by recording spectra at 1°C intervals from 37 to 75°C (spectra recorded at the proteins λmax).