

## Supporting Information

The role of the Cys-X-X-X-Cys motif on the kinetics of cupric ion loading to the *Streptomyces lividans* Sco protein

**Katie L.I.M. Blundell<sup>1</sup>, Michael T. Wilson<sup>1</sup>, Erik Vijgenboom<sup>2</sup> and Jonathan A.R. Worrall<sup>1</sup>**

<sup>1</sup>School of Biological Sciences, University of Essex, Wivenhoe Park, Colchester, CO4 3SQ, UK. <sup>2</sup>Molecular Biotechnology, Institute of Biology Leiden, Sylvius Laboratory, Leiden University, PO Box 9505, 2300RA Leiden, The Netherlands.

Correspondence addressed to: Jonathan Worrall, Tel: +44 1206 872095; email: [jworrall@essex.ac.uk](mailto:jworrall@essex.ac.uk)

**Table S1:** Output from Dichroweb of average secondary structure content for apo-Sco<sup>SI</sup> and the two Cys mutants. The data for apo-Sco<sup>SI</sup> was taken from<sup>1</sup>.

Protein	% $\alpha$ -helix <sup>a</sup>	% $\beta$ -sheet <sup>a</sup>	% Turn <sup>a</sup>	% Unordered <sup>a</sup>
Apo-Sco <sup>SI</sup>	35.0	18.7	16.2	30.0
Apo-C86A	30.2	15.7	20.2	34.0
Apo-C90A	38.0	13.5	17.6	31.1

Secondary structure content determined from X-ray structures

Protein	% $\alpha$ -helix	% $\beta$ -sheet	% Other	PDB
<i>Bacillus Subtilis</i> Sco	26	22	52	1XZ0
<i>Bacillus anthracis</i> Sco	31	17	52	4HDE

<sup>a</sup>All analysis carried out on far-UV CD spectra recorded at 20 °C and pH 7.0.

## References

1. K. L. I. M. Blundell, M. T. Wilson, D. A. Svistunenko, E. Vijgenboom and J. A. R. Worrall, *Open biology*, 2013, **3**, 120163.