

Copper (I) or (II) Replacement of the Structural Zinc Ion in the Prokaryotic Zinc Finger Ros Does Not Result in a Functional Domain

Martina Dragone ¹, Rinaldo Grazioso ¹, Gianluca D'Abrosca ¹, Ilaria Baglivo ¹, Rosa Iacovino ¹, Sabrina Esposito ¹, Antonella Paladino ², Paolo V. Pedone ¹, Luigi Russo ¹, Roberto Fattorusso ¹, Gaetano Malgieri ¹ and Carla Isernia ^{1,*}

¹ Department of Environmental, Biological and Pharmaceutical Science and Technology, University of Campania "Luigi Vanvitelli", Via Vivaldi 43, 81100 Caserta, Italy

² Institute of Biostructures and Bioimaging, National Research Council (IBB-CNR), Via Pietro Castellino 111, 80131 Naples, Italy

* Correspondence: carla.isernia@unicampania.it

Supplementary Materials

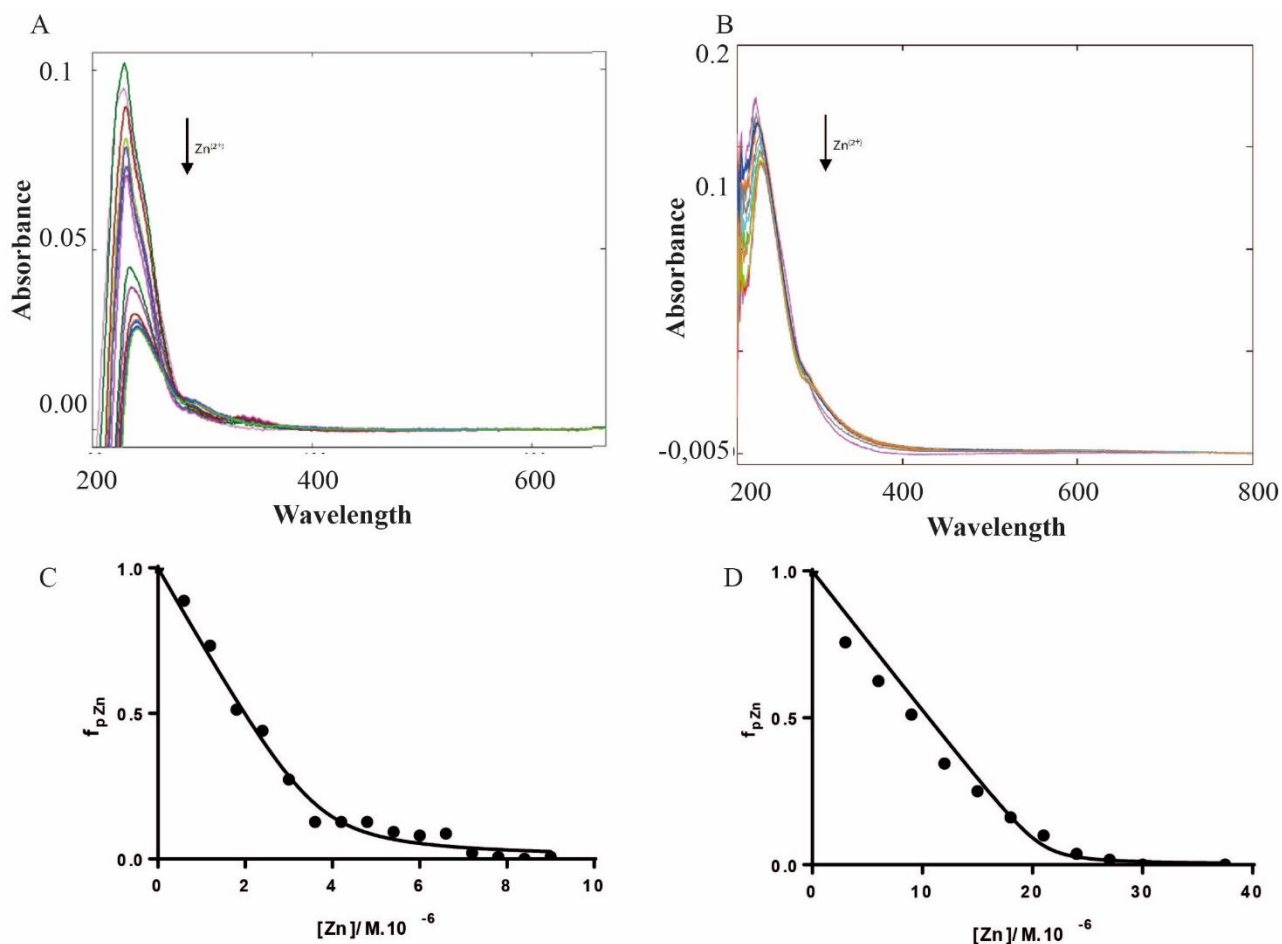


Figure S1. Titration of Cu(I)-Ros87 (A) and Cu(II)-Ros87 (B) with Zinc ; fitting curves for (C) Cu(I)-Ros87 and (D) Cu(II)-Ros87.

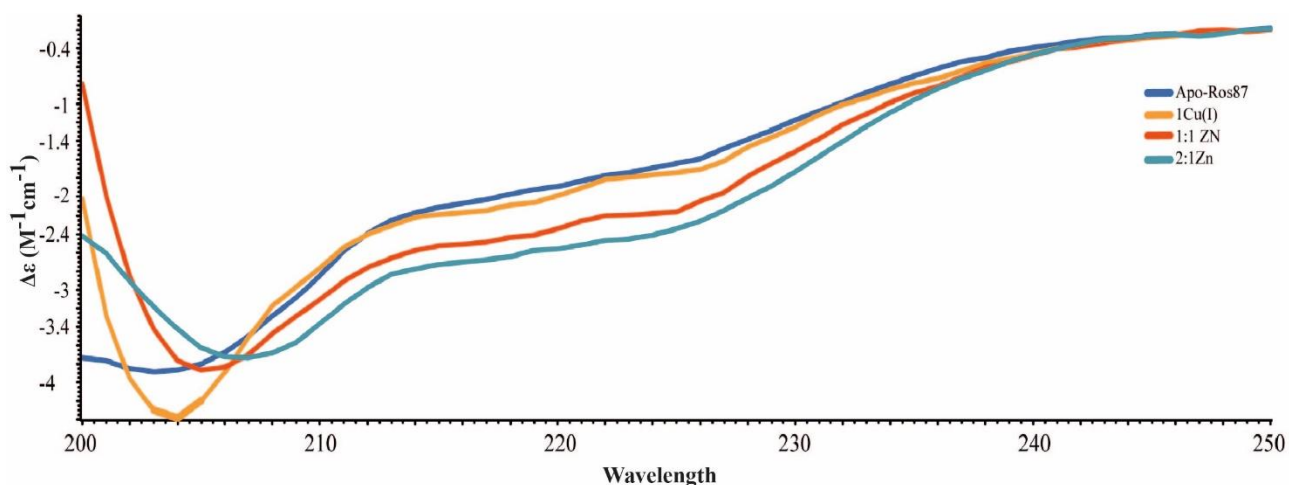


Figure S2. Far-UV CD spectra of Apo-Ros87 (blue line), Cu(I)-Ros87 1:1 (orange), Zn(II)-Ros87 1:1 (red), Zn(II)-Ros87 2:1 (light blue). All the spectra were acquired at 298K.

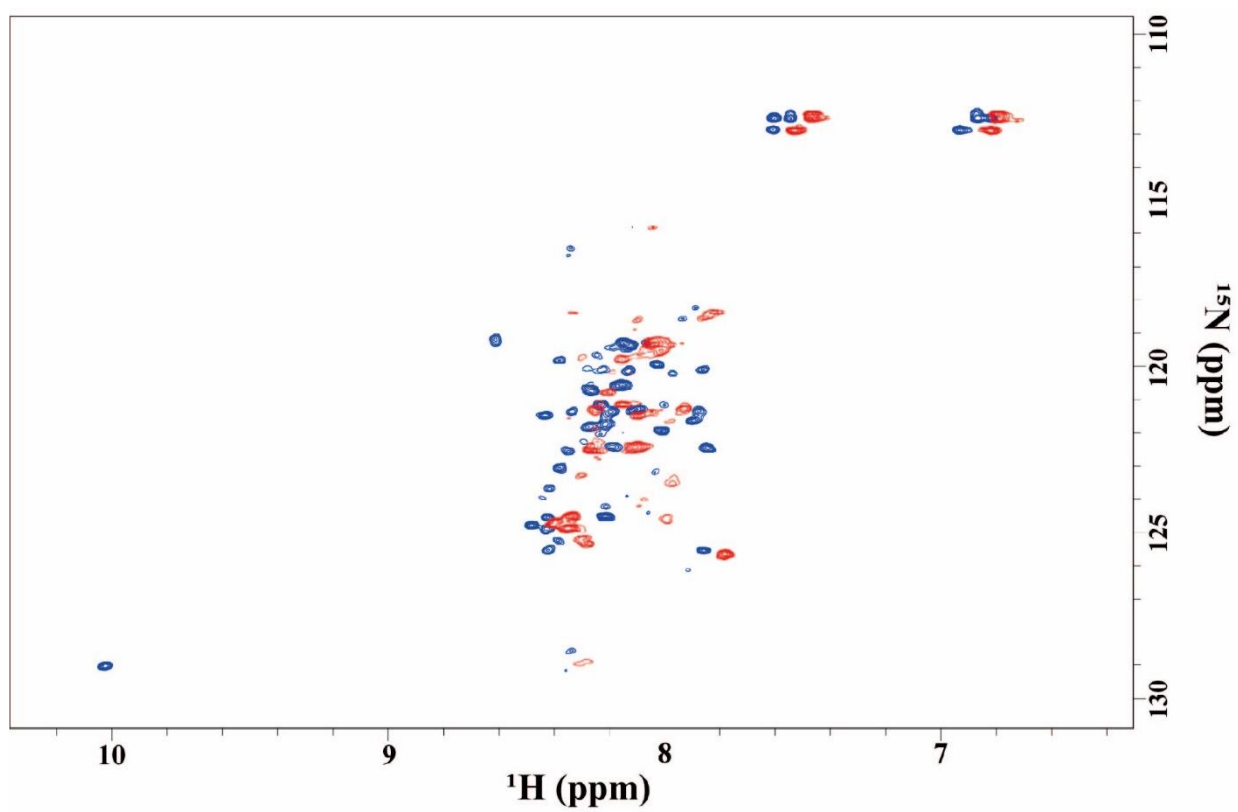


Figure S3. Overlay of the ^1H - ^{15}N HSQC spectrum acquired for ApoRos87 (blue) with Cu(II)-Ros87 (red).