

Electronic Supporting Information

***In Vitro* and *In Vivo* Activity of a New Unsymmetrical Dinuclear Copper Complex Containing a Derivative Ligand of 1,4,7-triazacyclononane: Catalytic Promiscuity of [Cu₂(L)Cl₃]**

**Vicente R. de Almeida,^{*a} Fernando R. Xavier,^b Renata E.H.M.B.Osório,^a Luiza M. Bessa,^a
Eduardo L. Schilling,^a Thiago G. Costa,^a Tiago Bortolotto,^c Angélica Cavalett,^c Frederico
A. V. Castro,^d Felipe Vilhena,^e Odivaldo C. Alves,^e Hernán Terenzi,^c Elis C. A. Eleutherio,^d
Marcos D. Pereira,^d Wolfgang Haase,^f Zbigniew Tomkowicz,^g Bruno Szpoganicz,^a
Adailton J. Bortoluzzi^a and Ademir Neves.^{*a}**

^a*Departamento de Química, Universidade Federal de Santa Catarina, Florianópolis – SC 88040-900, Brazil; +55(48)3721-9962; vicentebra@hotmail.com, ademir.neves@ufsc.br*

^b*Departamento de Química, Universidade do Estado de Santa Catarina, Joinville - SC 89219-710, Brazil;*

^c*Centro de Biologia Molecular Estrutural, Universidade Federal de Santa Catarina, Florianópolis – SC 88040-900, Brazil;*

^d*Departamento de Bioquímica, Instituto de Química, Universidade Federal do Rio de Janeiro, Rio de Janeiro – RJ 21949-900, Brazil;*

^e*Coordenação de Física Aplicada, Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro – RJ, 22290-180, Brazil;*

^f*Institut für Physikalische Chemie, Technische Universität Darmstadt, Petersenstraße 20, D-64287-Darmstadt, Germany;*

^g*Institute of Physics, Reymonta 4, Jagiellonian University, PL-30-059 Krakow, Poland.*

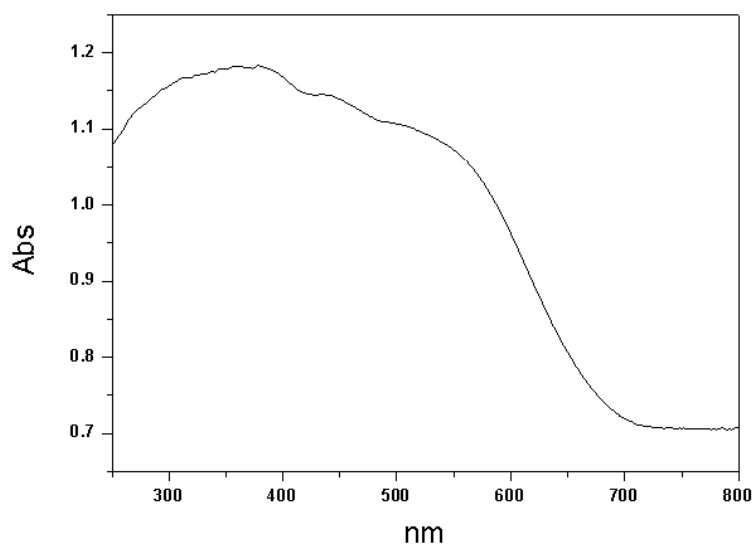


Fig S1 Diffuse reflectance electronic spectrum of complex **1** crystals dispersed in KBr pellet.

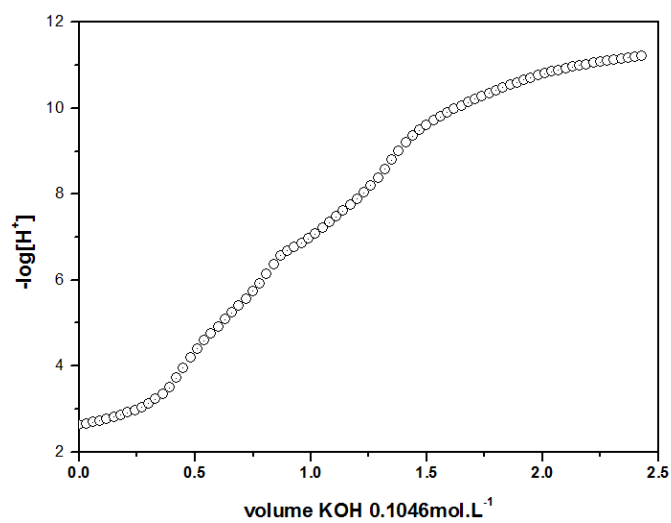


Fig S2 Potentiometric titration curve of complex **1**.

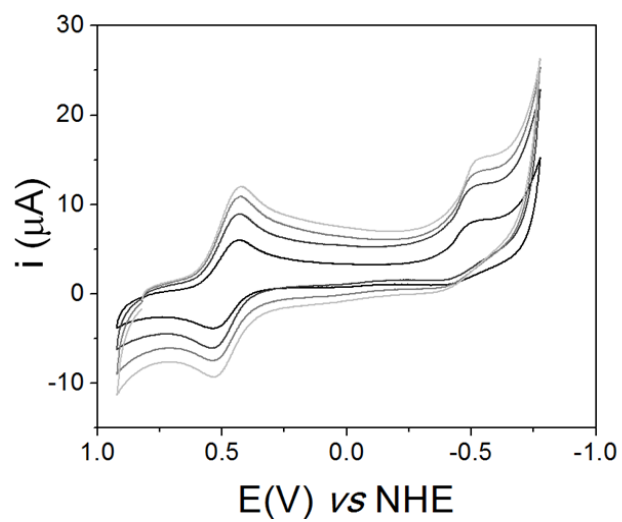


Fig S3 CV voltammogram of **1** in CH₃CN. Supporting electrolyte *n*-Bu₄NPF₆ 0.1 mol.L⁻¹, electrodes: glassy-carbon (working), platinum wire (auxiliary) and Ag/Ag⁺ (reference), internal standard ferrocene ($E^0 = 400$ mV vs NHE)

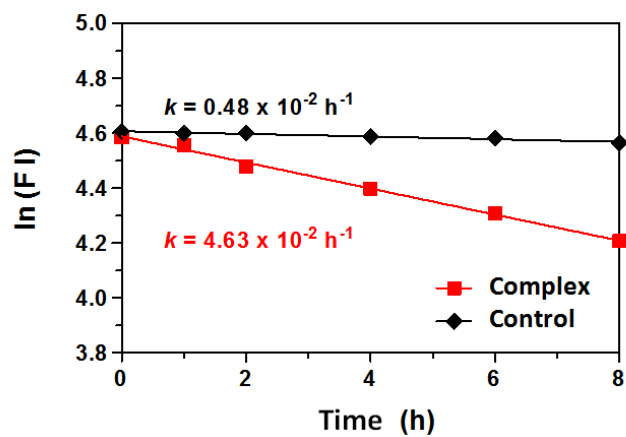


Fig S4 Kinetics of supercoiled DNA cleavage by complex at 0.5 mmolL^{-1} at $37 \text{ }^{\circ}\text{C}$ in MES (10 mmolL^{-1} , pH 6.0).