Supplementary Information

For

Ni^{II} - Schiff base complex as an enzyme inhibitor of hen egg white lysozyme: a crystallographic and spectroscopic study

Banabithi Koley Seth^a, Aurkie Ray^a, Sampa Biswas^b and Samita Basu^{*a}

^aChemical Sciences Division, Saha Institute of Nuclear Physics, 1/AF Bidhannagar, Kolkata -

700064, India. Fax: +91-33-2337-4637; Telephone: +91-33-2337-5345; E-mail:

samita.basu@saha.ac.in

^bCrystallography and Molecular biology, Saha Institute of Nuclear Physics, 1/AF Bidhannagar, Kolkata -700064, India. Fax: +91-33-2337-4637; Telephone: +91-33-2337-5345; E-mail:

sampa.biswas@saha.ac.in

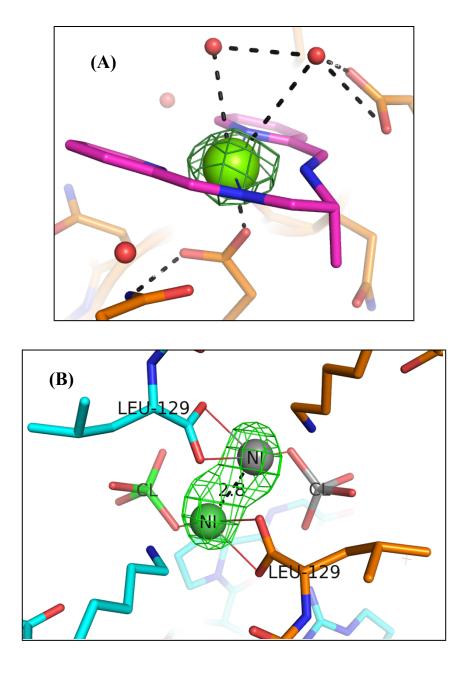


Fig.S1. Anomalous map of nickel atoms; A) Nickel in the NSC at 6.5 σ ; B) Free nickel atom (at 4 σ) near the C terminus end (Leu 129) of the lysozyme molecule. The chlorine and the oxygen ion of the perchlorate molecule and the nickel ion of the asymmetric unit are represented as green, orange and green respectively and those of the symmetry related molecule are represented by grey, orange and grey respectively.

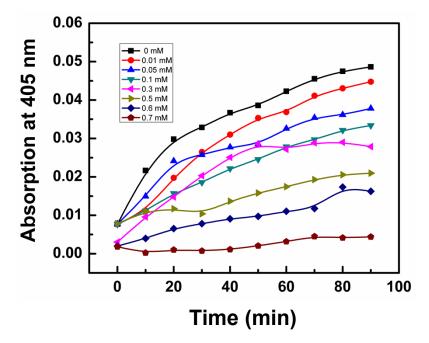


Fig.S2. Sensitivity of the lysozyme enzyme activity (0.6 mg/mL) in absence and presence of NSC (0 to 0.7 mM) against p-(GlcNAc)₃ substrate (1.6 mM) at acetate buffer medium (pH 5) at 37°C. The color intensity of liberated p-nitrophenol at 405 nm has been measured as described in the text.