

Supporting Information For:

Nickel(II) and copper(II) complexes constructed with N₂S₂ hybrid benzamidine-thiosemicarbazone ligand: Synthesis, X-ray crystal structure, DFT, kinetic-catalytic and *in vitro* biological applications

Paranthaman Vijayan,^a Periasamy Viswanathamurthi,^{*a} Krishnaswamy Velmurugan,^b Raju Nandhakumar,^b Manickam Dakshinamoorthi Balakumaran,^c Pudupalayam Thangavelu Kalaichelvan,^c Jan Grzegorz Malecki^d

^a*Department of Chemistry, Periyar University, Salem-636 011, India.*

^b*Department of Chemistry, Karunya University, Karunya Nagar, Coimbatore - 641 114, India.*

^c*Centre for Advanced Studies in Botany, School of Life Sciences, University of Madras, Guindy Campus, Chennai - 600 025, Tamil Nadu, India.*

^d*Department of Crystallography, Silsian University, Szkolna 9, 40-006 Katowice, Poland*

*To whom correspondence should be addressed, e-mail: viswanathamurthi72@gmail.com

Fax: +91 427 2345124

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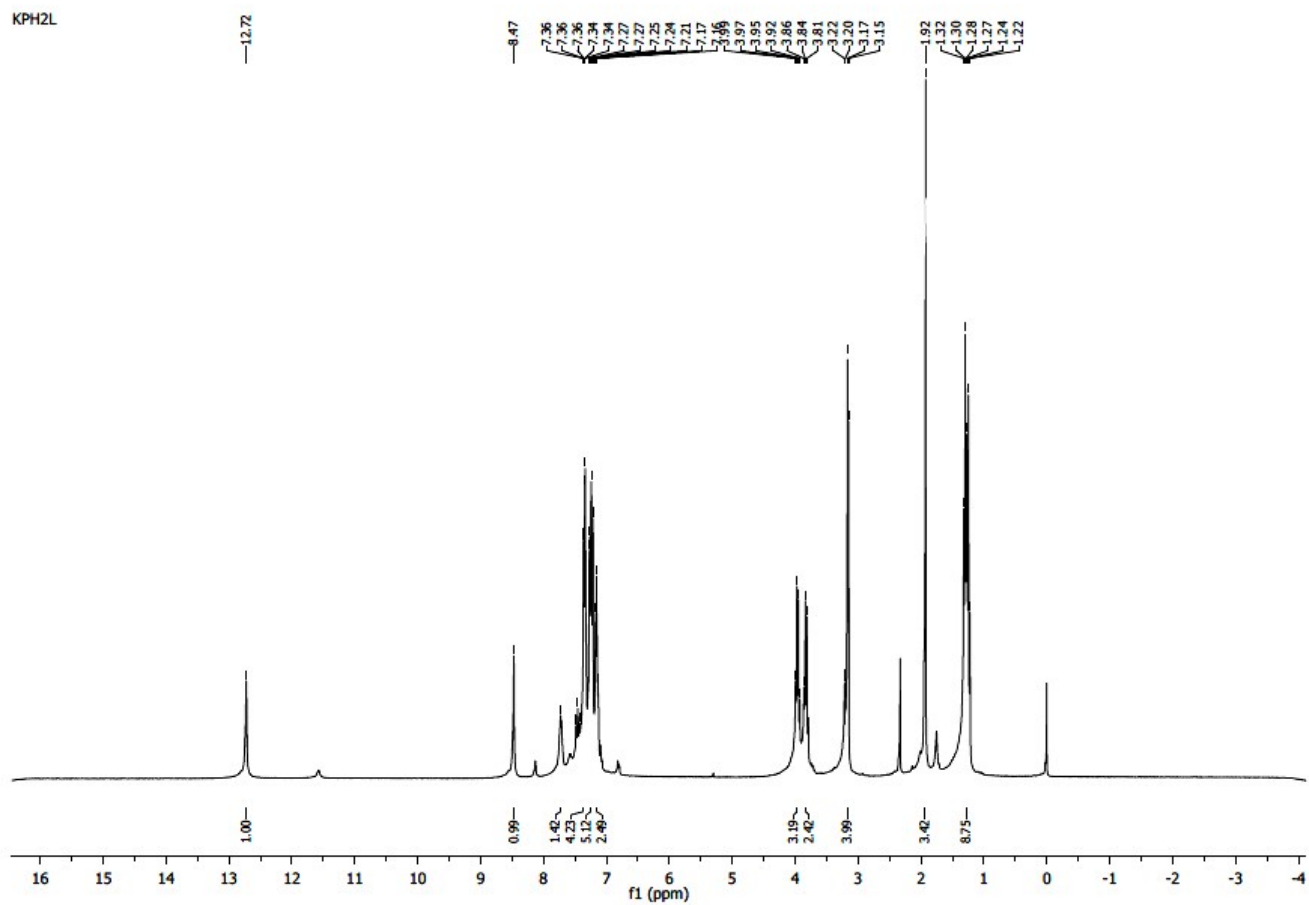


Fig.S1 ^1H NMR Spectrum of H_2L

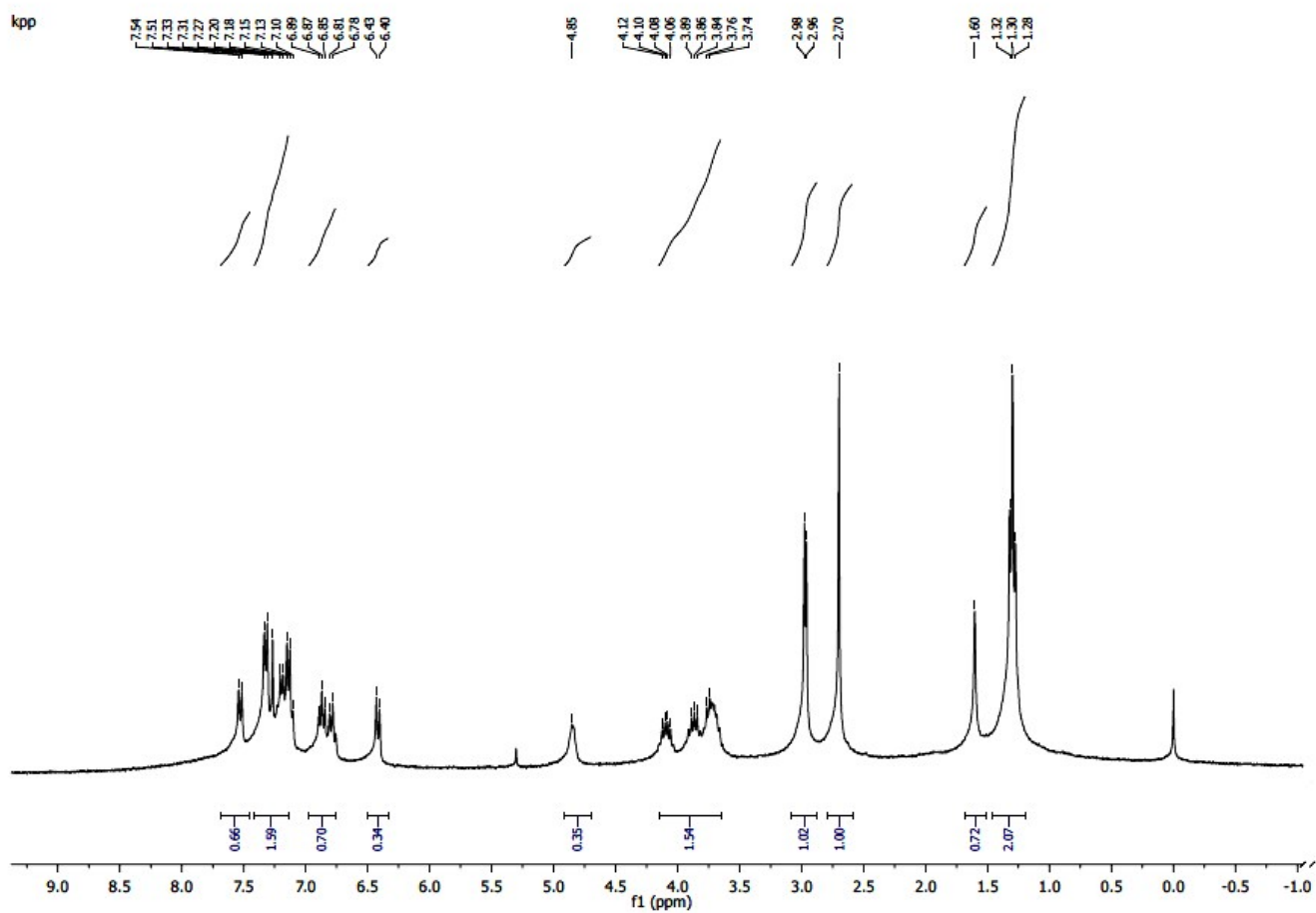


Fig.S2 ^1H NMR Spectrum of complex **1**

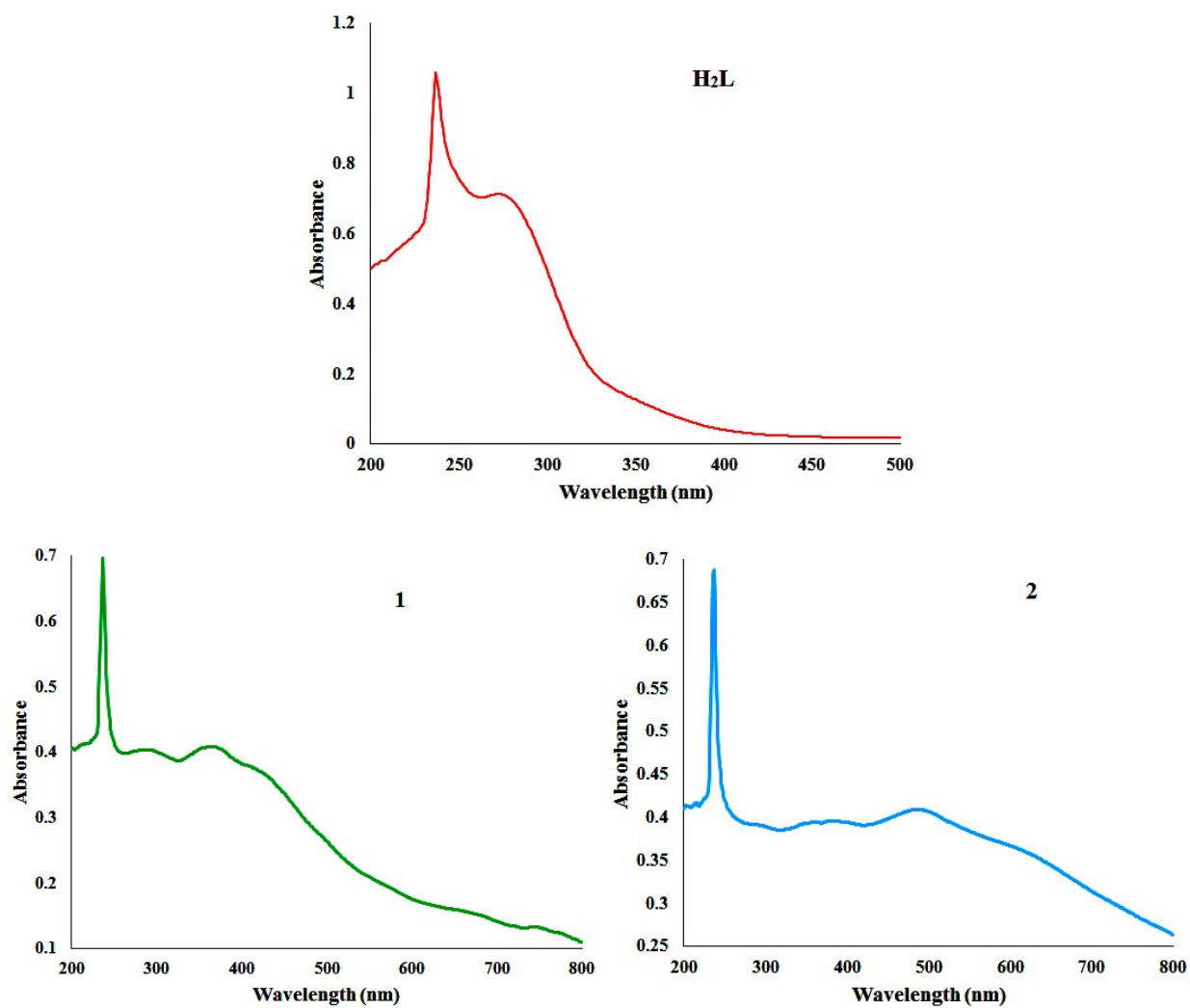


Fig.S3 Electronic spectra of compounds

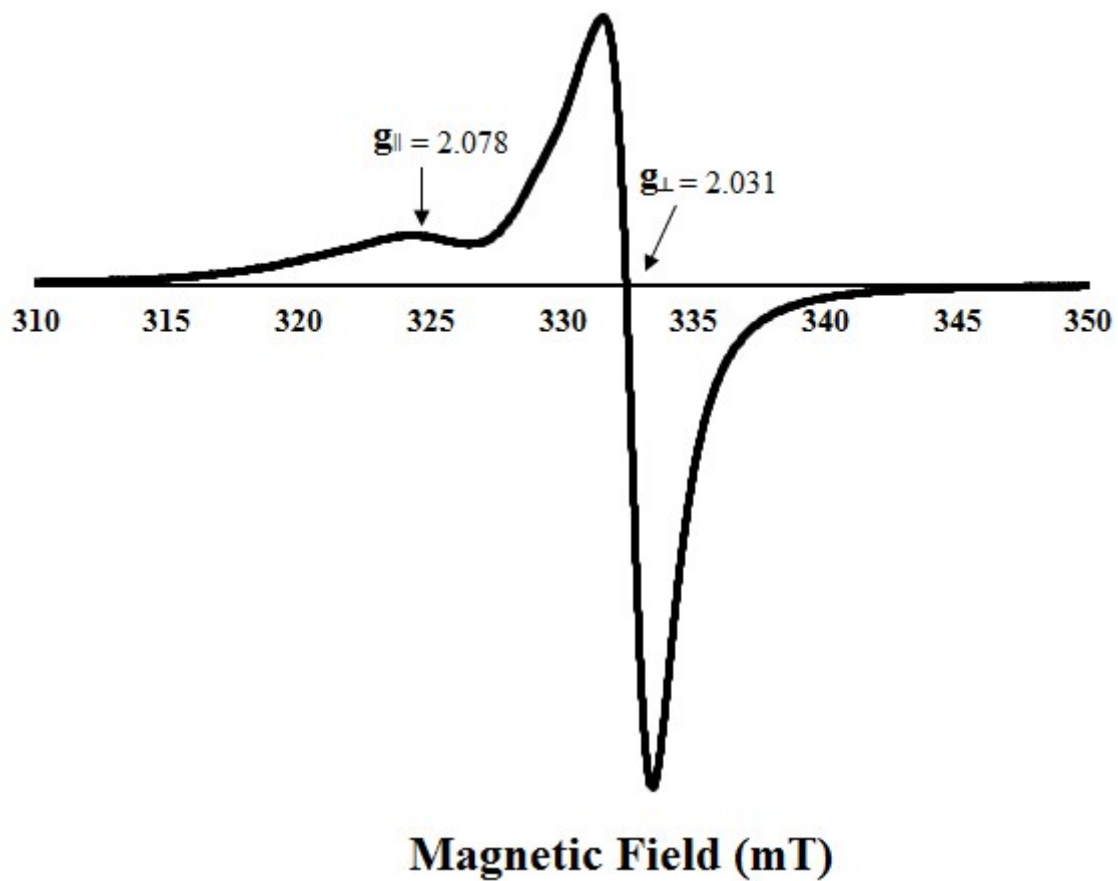


Fig.S4 EPR spectrum of complex 2

WATERS, Q-TOF MICROMASS (LC-MS)
P VIJAYAN L1 11 (0.292) Cm (4:16)

SAIF/CIL,PANJAB UNIVERSITY,CHANDIGARH
1: TOF MS ES+
5.29e4



Fig.S5 Mass Spectrum of H₂L

WATERS, Q-TOF MICROMASS (LC-MS)
P VIJAYAN NIL 6 (0.160) Cm (5:11)

SAIF/CIL,PANJAB UNIVERSITY,CHANDIGARH
1: TOF MS ES+
1.07e4

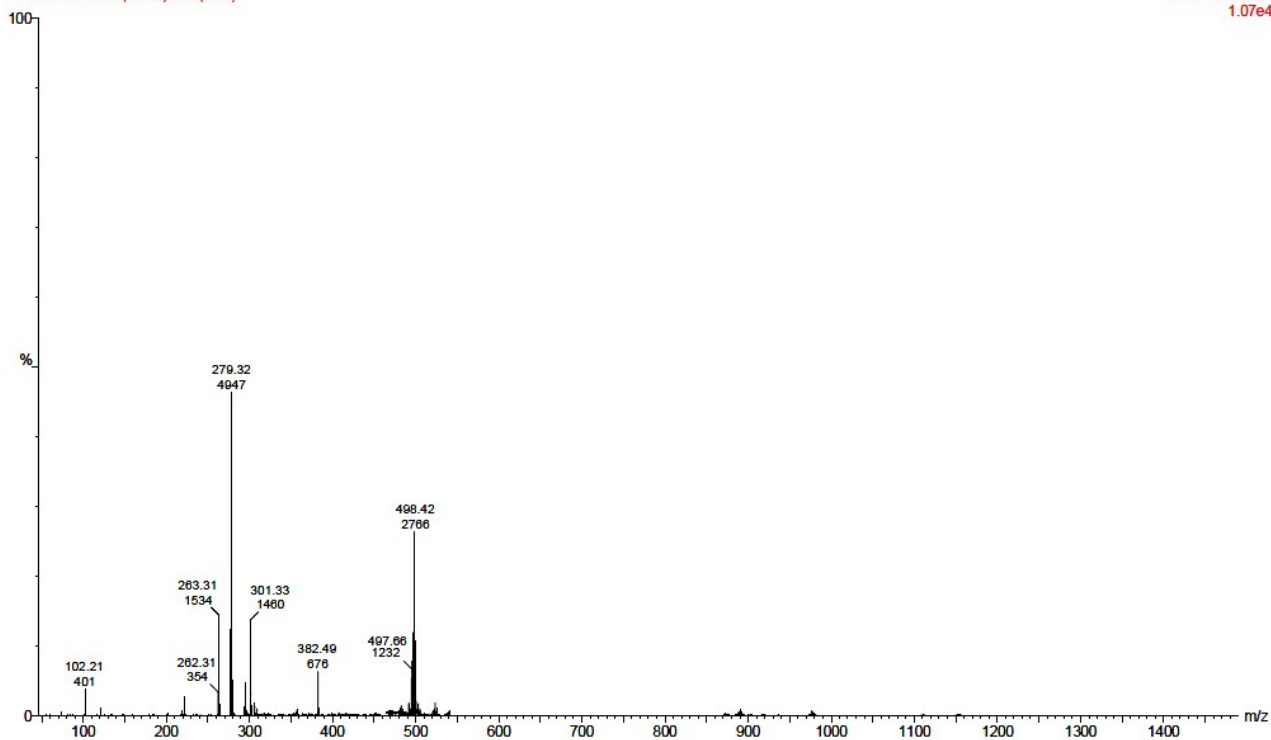


Fig.S6 Mass Spectrum of complex 1

WATERS, Q-TOF MICROMASS (LC-MS)
P VIJAYAN CuL 6 (0.160) Cm (5:11)

SAIF/CIL,PANJAB UNIVERSITY,CHANDIGARH
1: TOF MS ES+
4.95e3

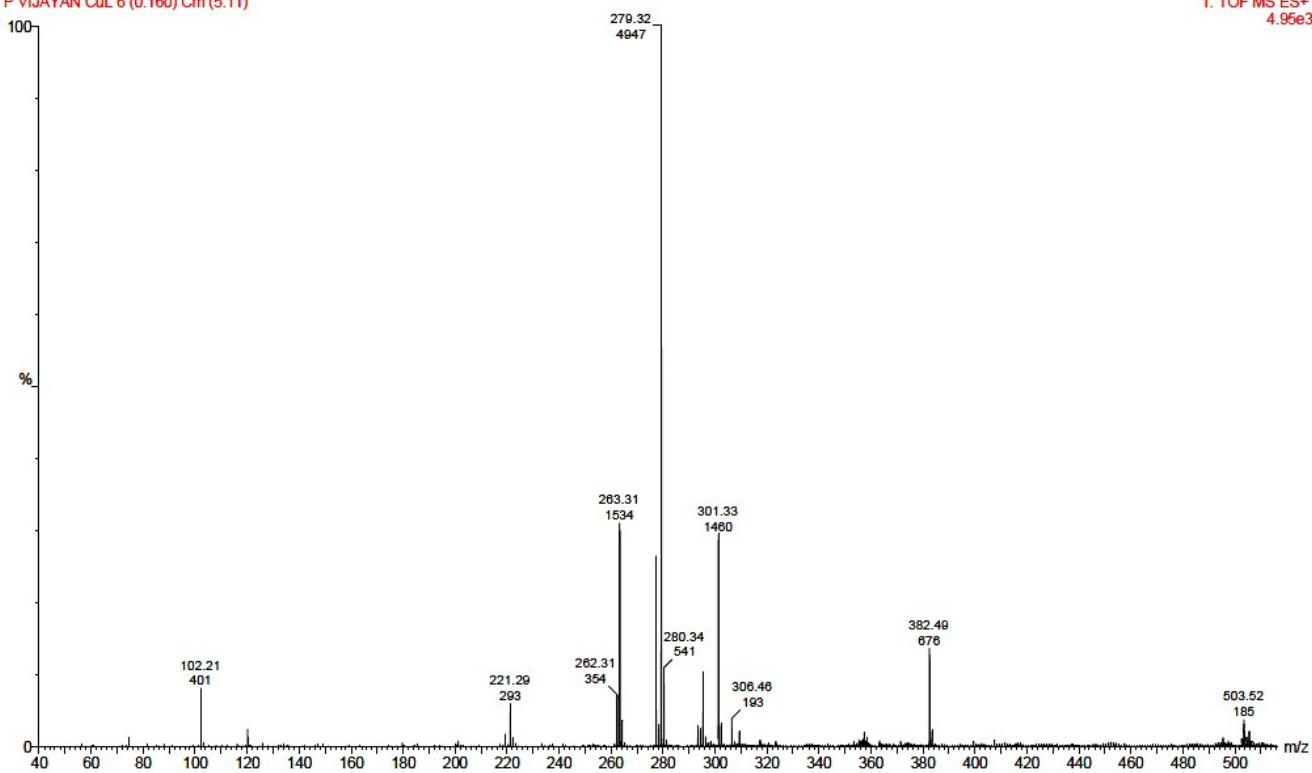


Fig.S7 Mass Spectrum of complex 2

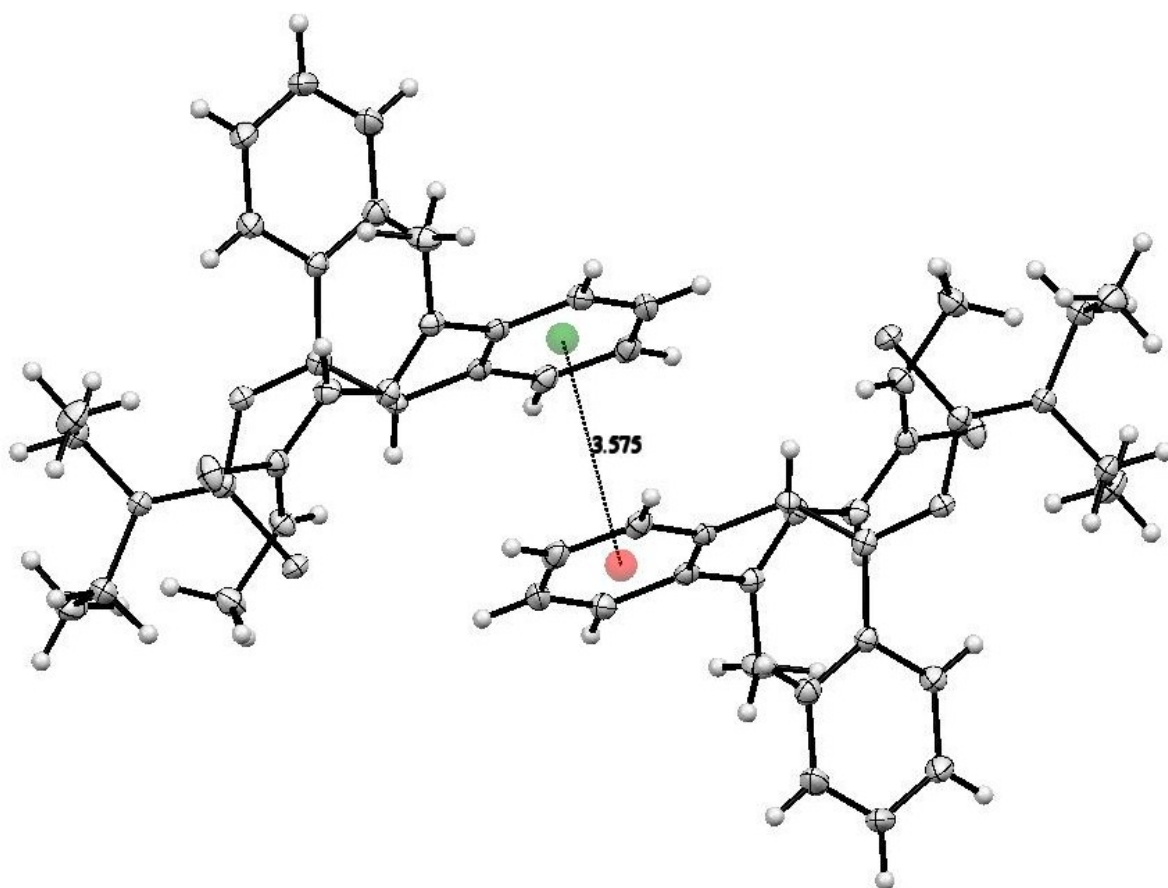


Fig.S8 π - π stacking interaction of **H₂L**

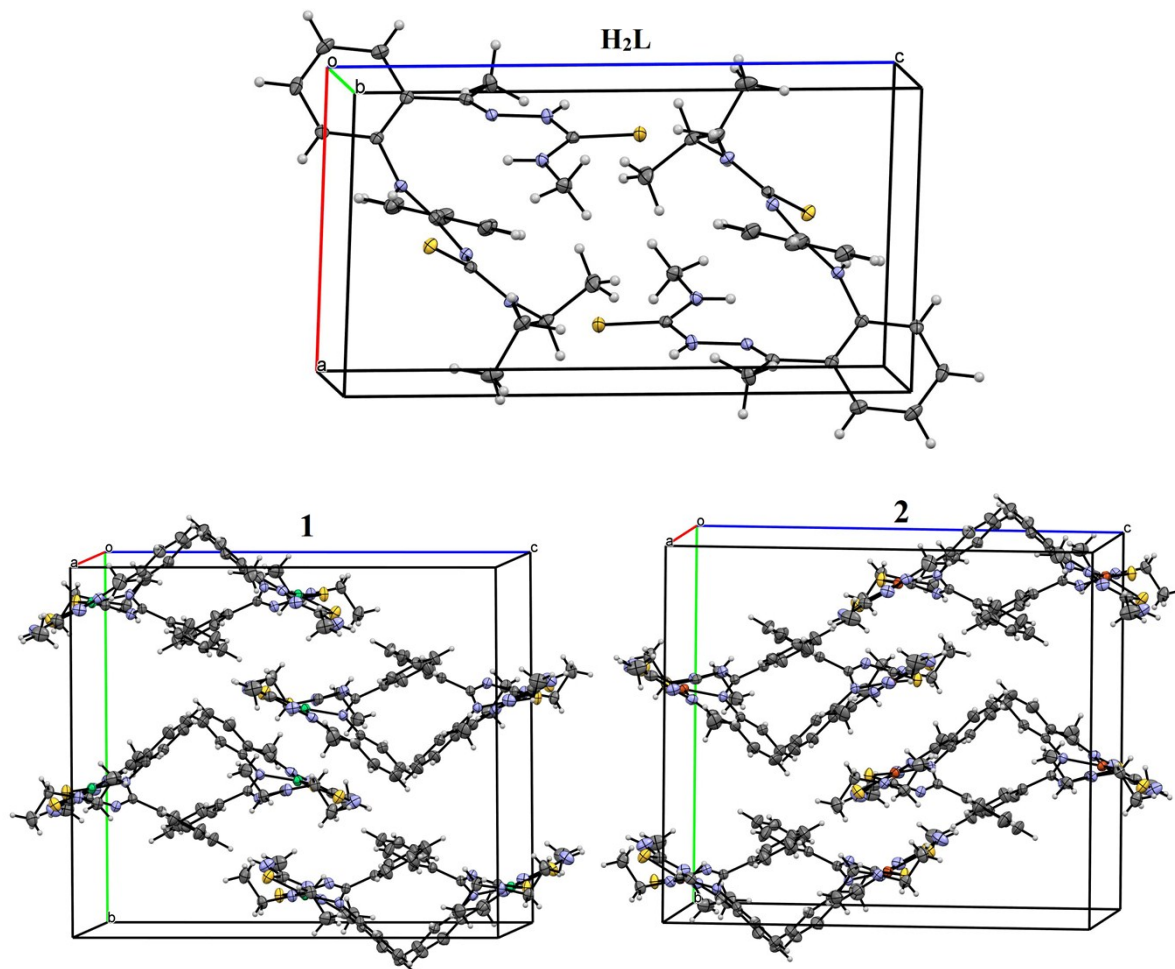


Fig.S9 Packing diagram of compounds

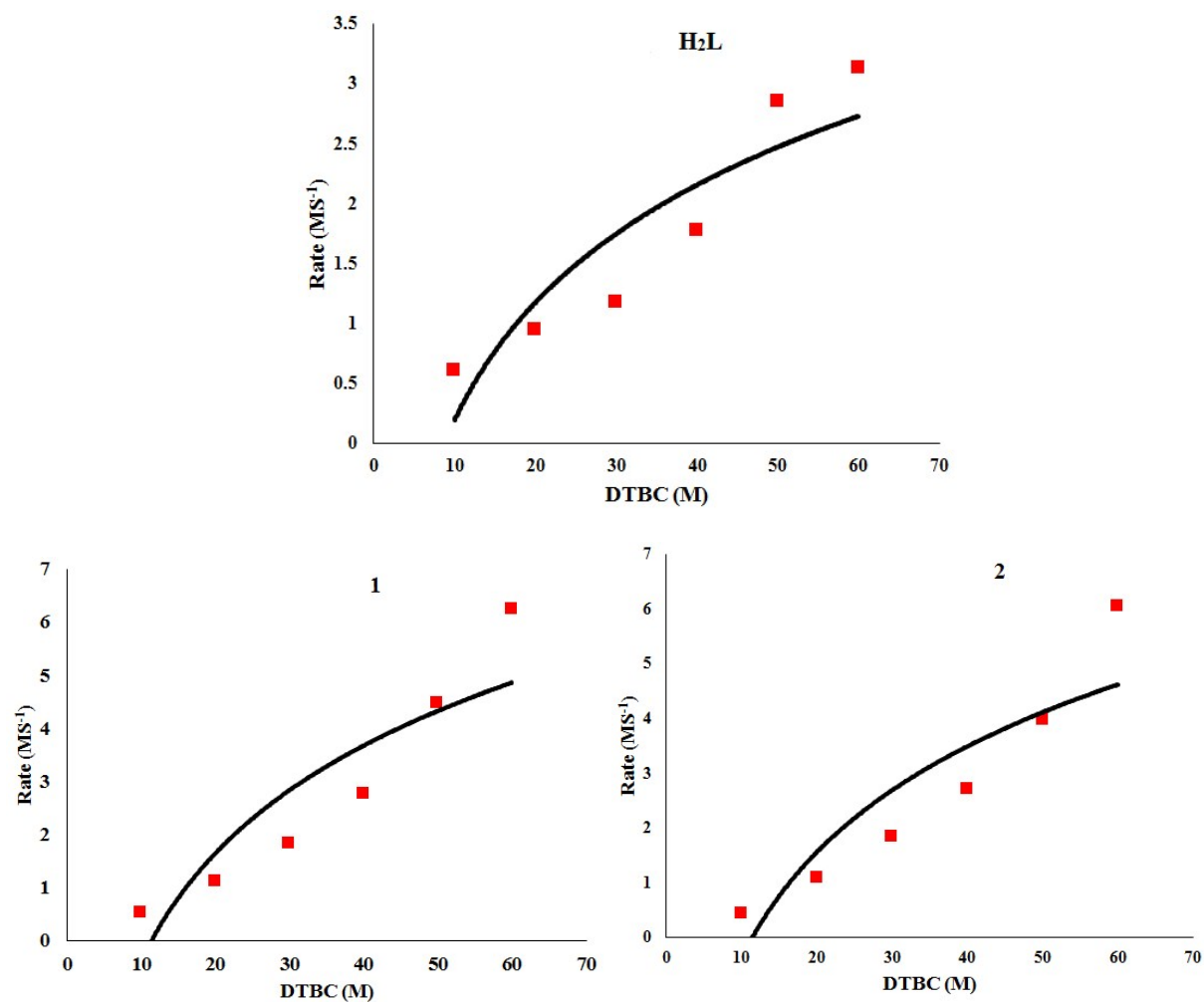


Fig.S10 Plot for rate vs concentration of catacholase activity

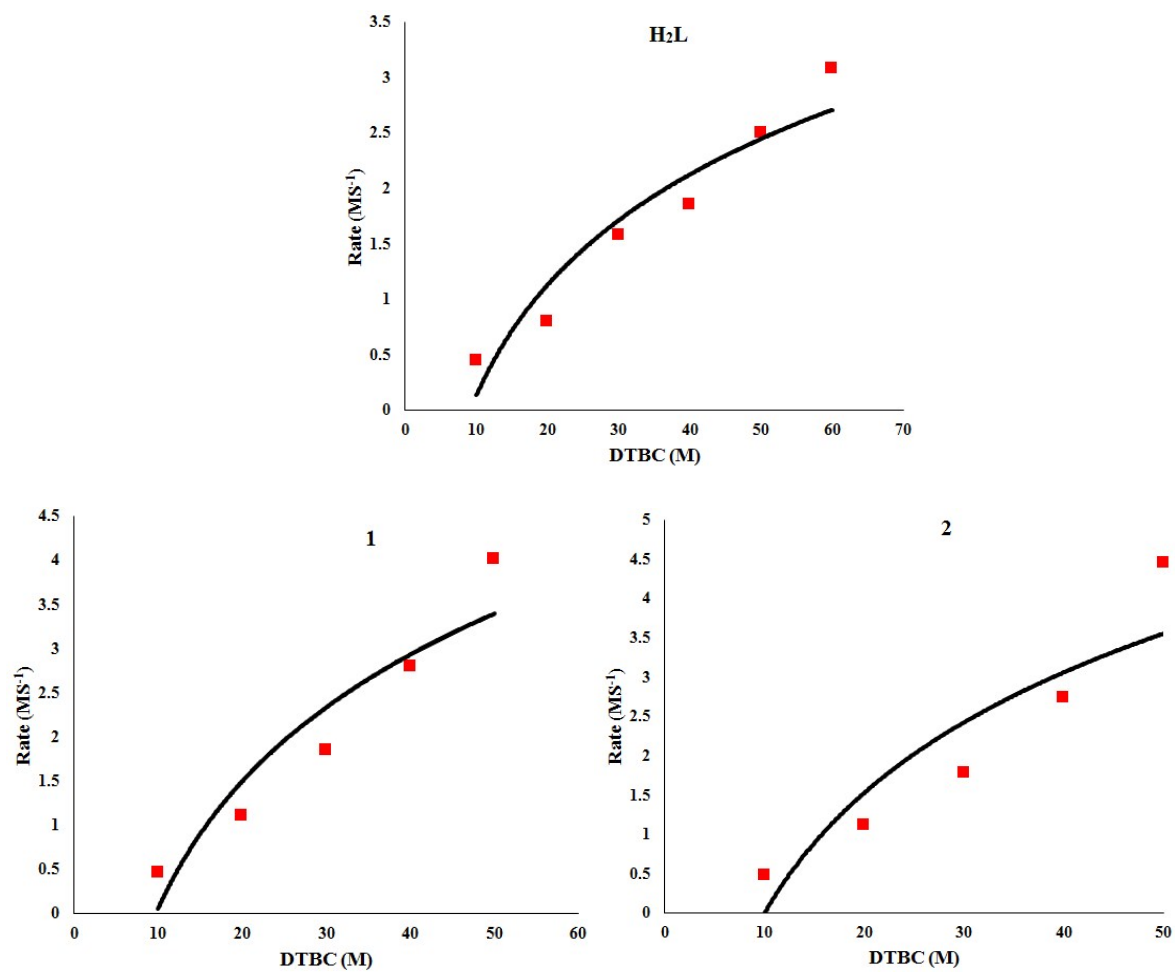


Fig.S11 Plot for rate vs concentration of phosphatase activity