

Supplementary materials

Synthesis, a unique structure and properties of tetranitrosyl iron complex, the inhibitor of phosphodiesterase 1

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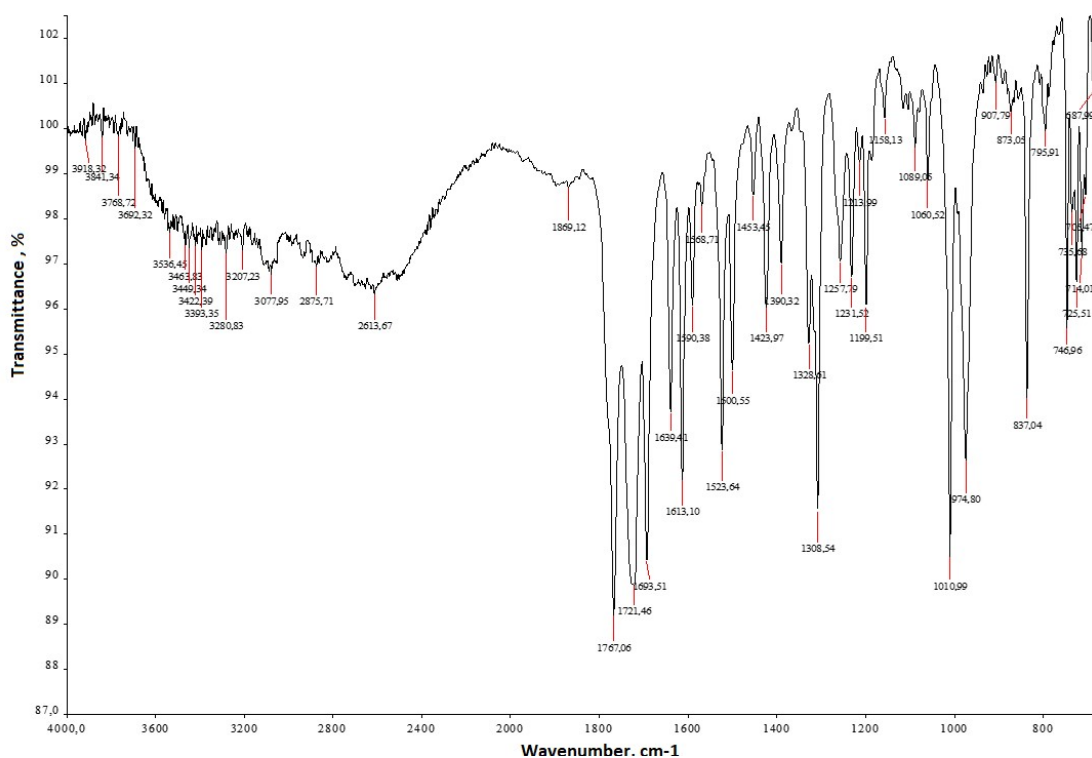


Fig. S1. IR spectrum of complex 1.

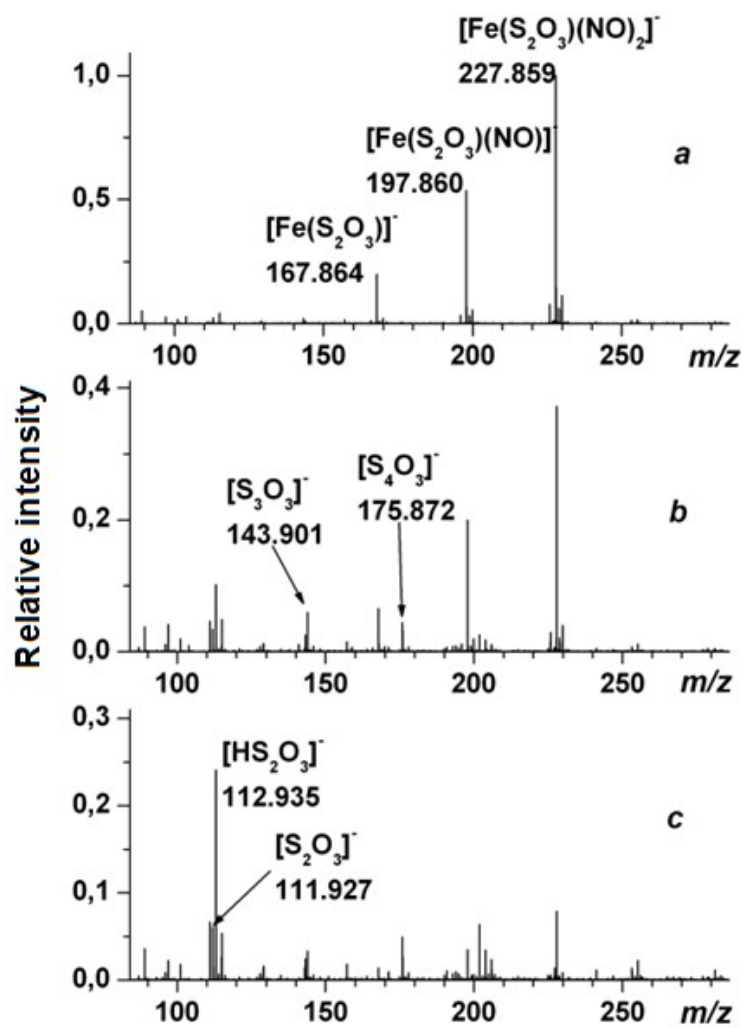


Fig.S2. Mass spectra of $\text{Na}_2[\text{Fe}_2(\text{S}_2\text{O}_3)_2(\text{NO})_4] \cdot 4\text{H}_2\text{O}$ (10^{-4} M) aqueous solution: 4 (a), 24 (b) and 64 (c) minutes after preparing of the solution (from ref. [48]).

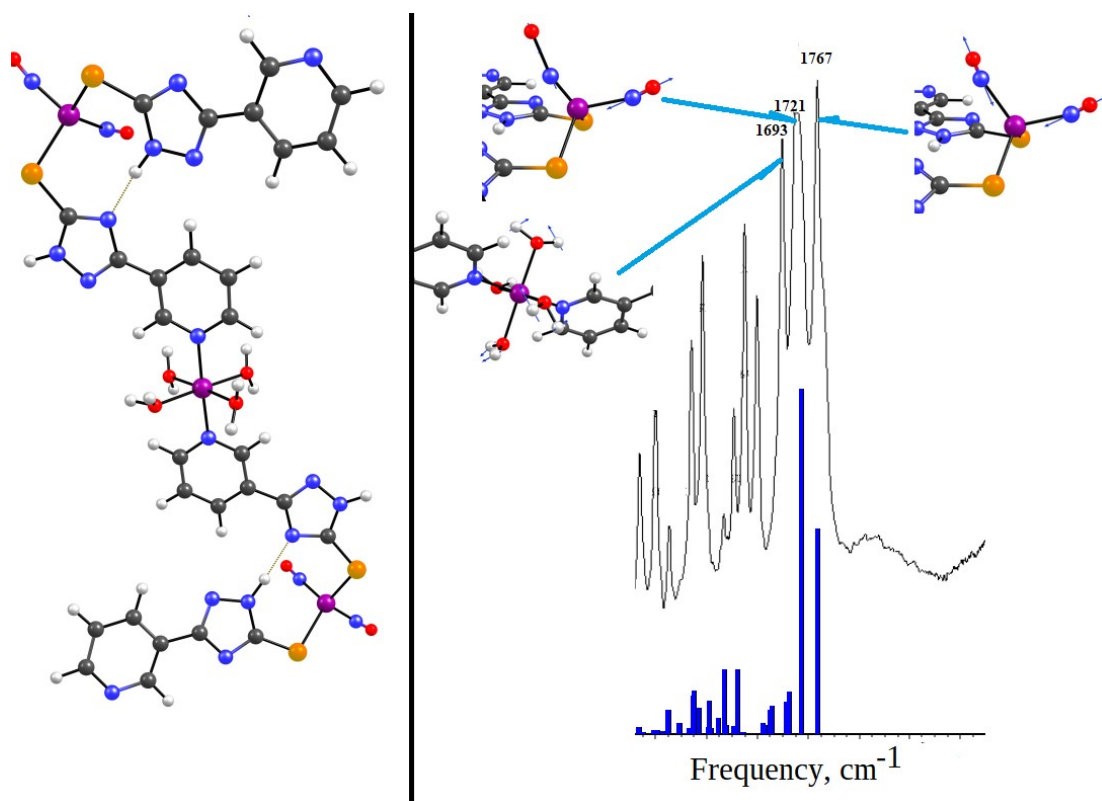


Fig.S3. Optimized geometry (Tpssh/6-31G*) and comparison of theoretical and experimental IR spectra of complex 1.

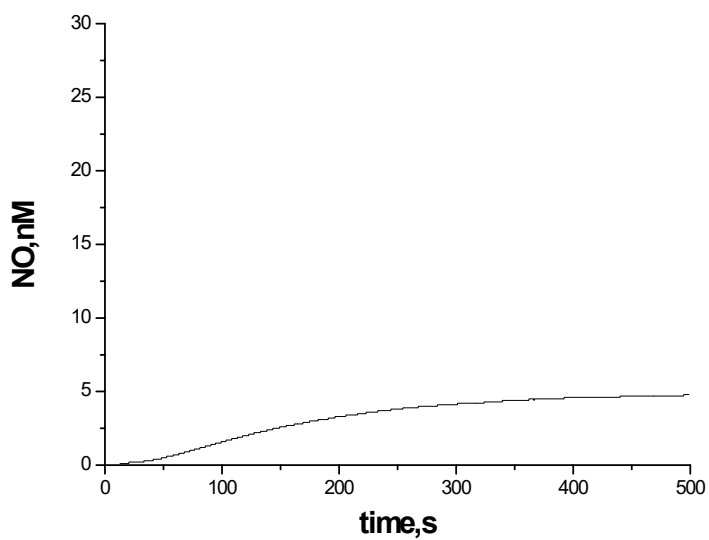
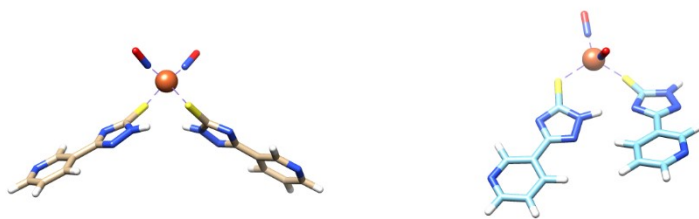


Fig. S4. Time dependence of the amount of NO generated by complex 2 ($0.4 \cdot 10^{-5}$ M) in a 1% aqueous solution of DMSO at pH 7.0 and $T=25^{\circ}\text{C}$ under aerobic conditions.



c1

c2

Fig. S5. Conformations of complex 2.

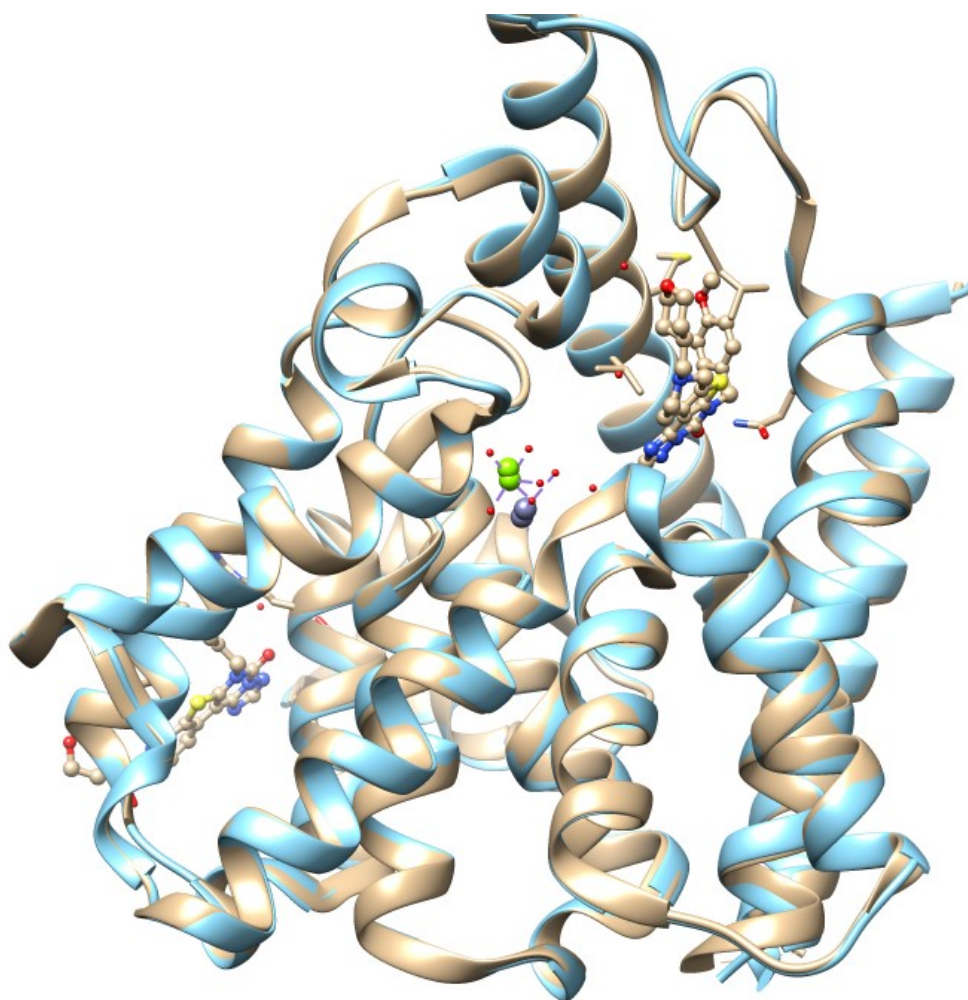


Fig. S6. Overlay of the 3D structures of the human phosphodiesterase 5uoy.pdb (yellow) and bovine model PDE1B (blue). The 8HM ligands in 5uoy.pdb are shown as ball-and-stick models.