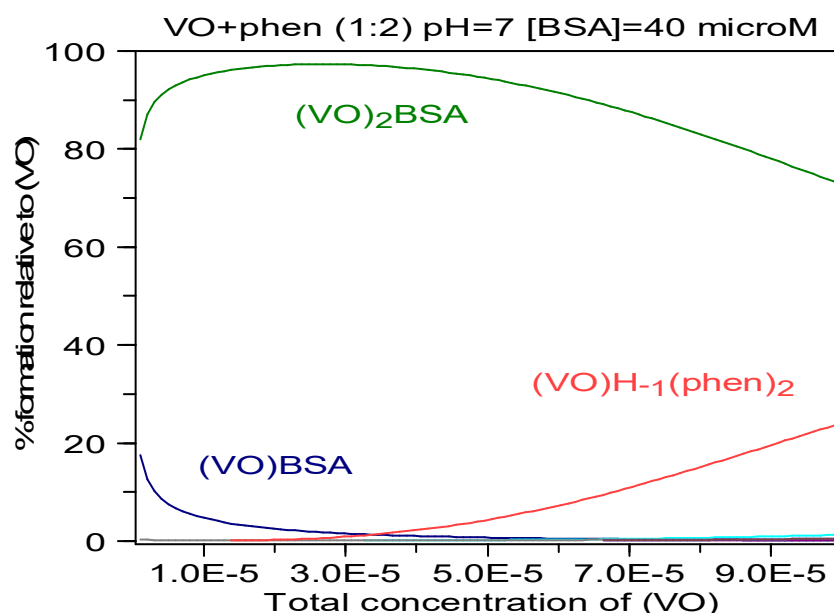


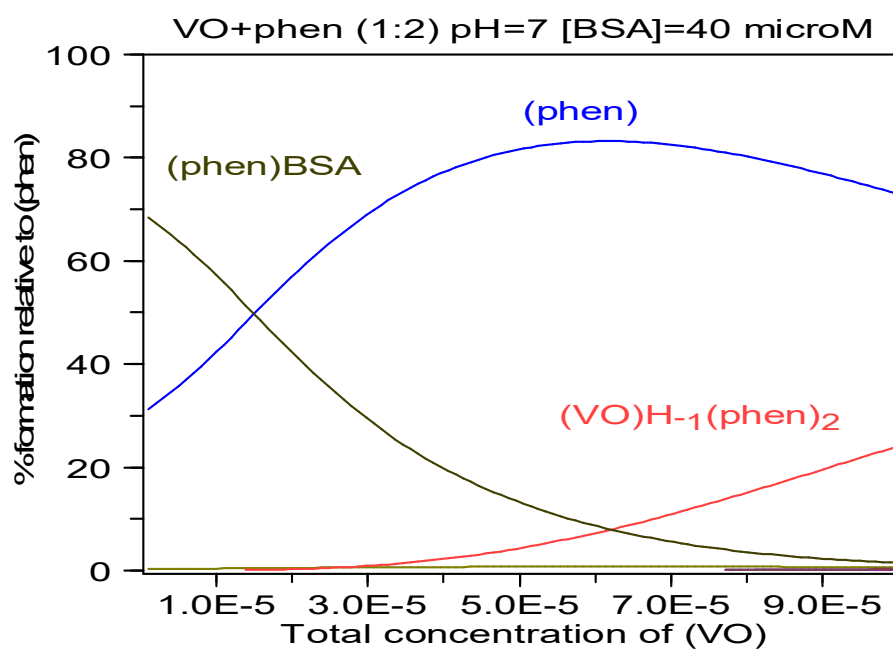
Supplementary Materials: Misinterpretations in Evaluating Interactions of Vanadium Complexes with Proteins and Other Biological Targets

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Assuming that $[BSA] = 40 \mu M$, addition of $[V^{IV}O(phen)_2^{2+}]$ in the concentration range 1–100 μM and the formation of $V^{IV}O$ -BSA species, but at this stage not considering the binding of $V^{IV}O$ -phen complexes to BSA, the calculated species distribution diagram (Fig. SM-1),



(A)



(B)

Figure S1. Species distribution diagrams of the system $V^{IV}O^{2+}$ +phen+BSA at pH=7 (range of C_v values: 1 to 100 μ M) calculated using the HySS program, taking a molar ratio $V^{IV}O$:phen of 1:2 and [BSA] = 40 μ M. The binding of phen to BSA is taken into account with a binding constant of 5.7×10^4 , but in this figure the formation of $V^{IV}O$ -phen-BSA species is not considered. (A): % of formation of vanadium containing species; (B) % of formation of phen containing species.