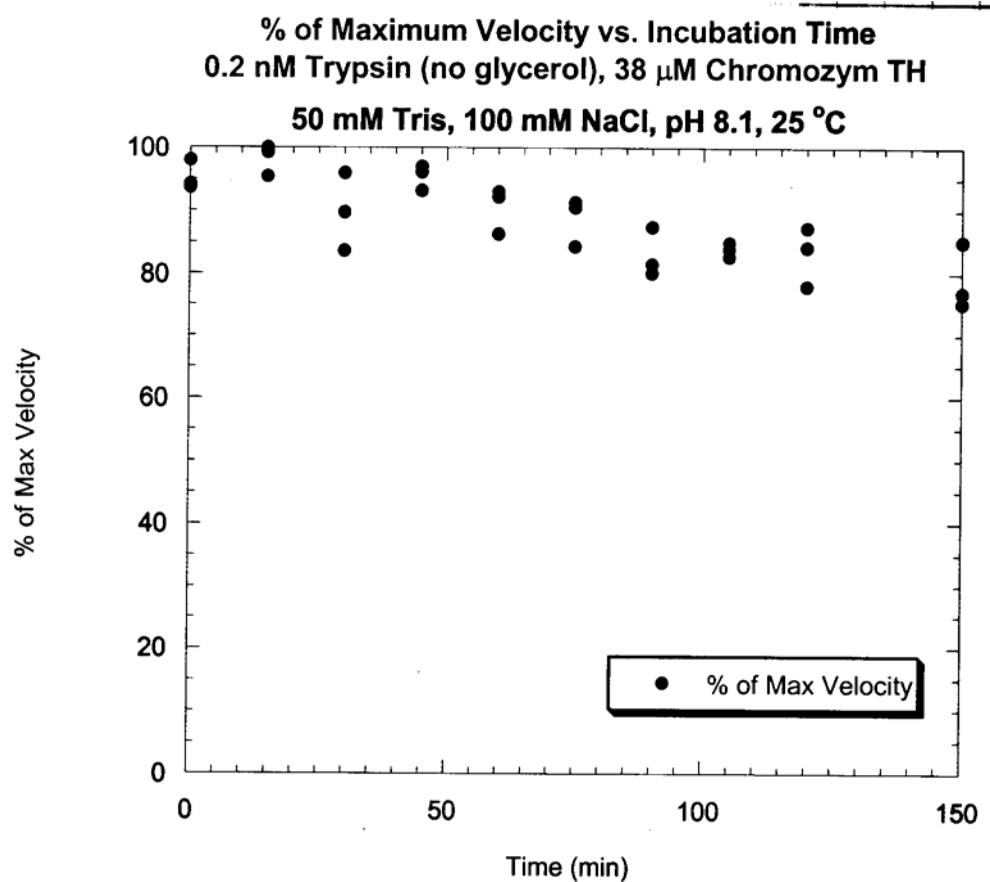


**Supporting Information for:**

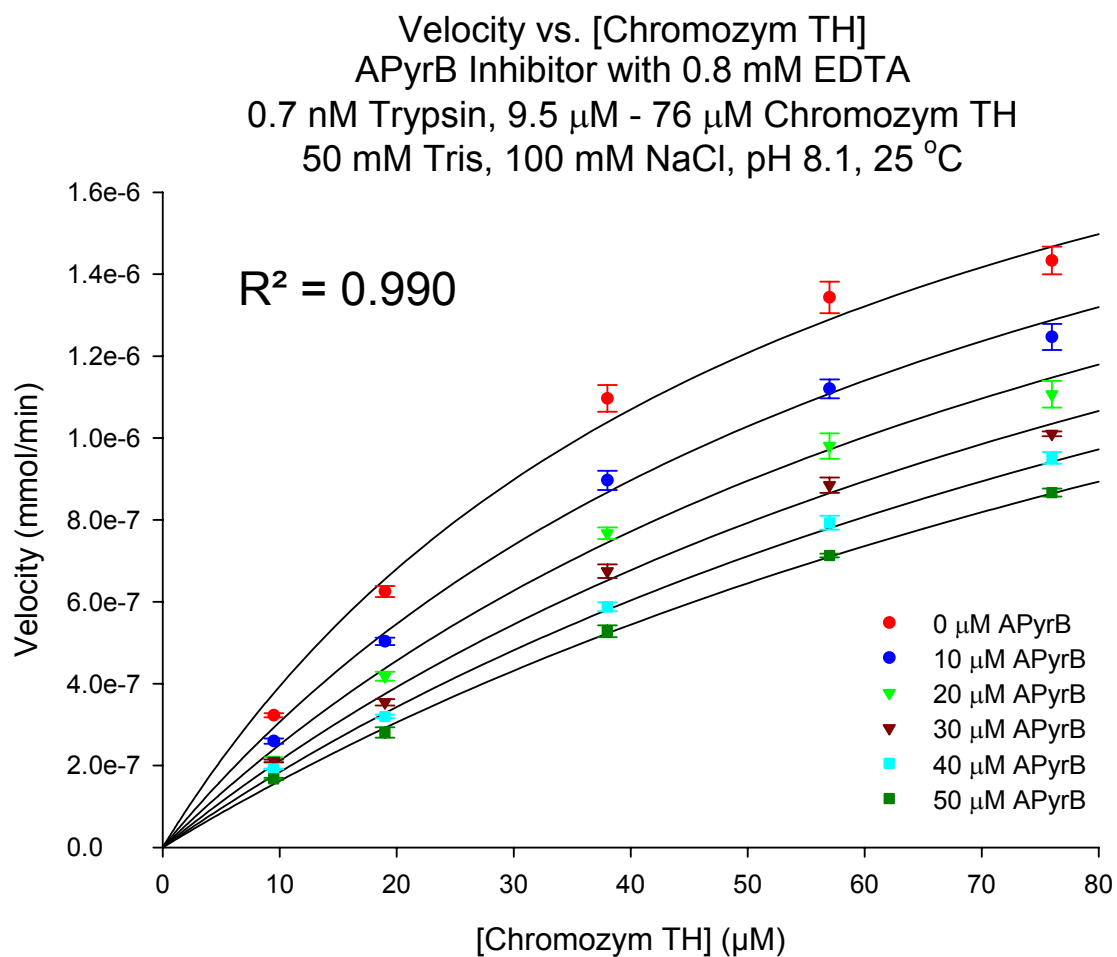
**Effects of Coordinating Metal Ions on the Mediated Inhibition of Trypsin by Bis-benzimidazoles and Related Compounds**

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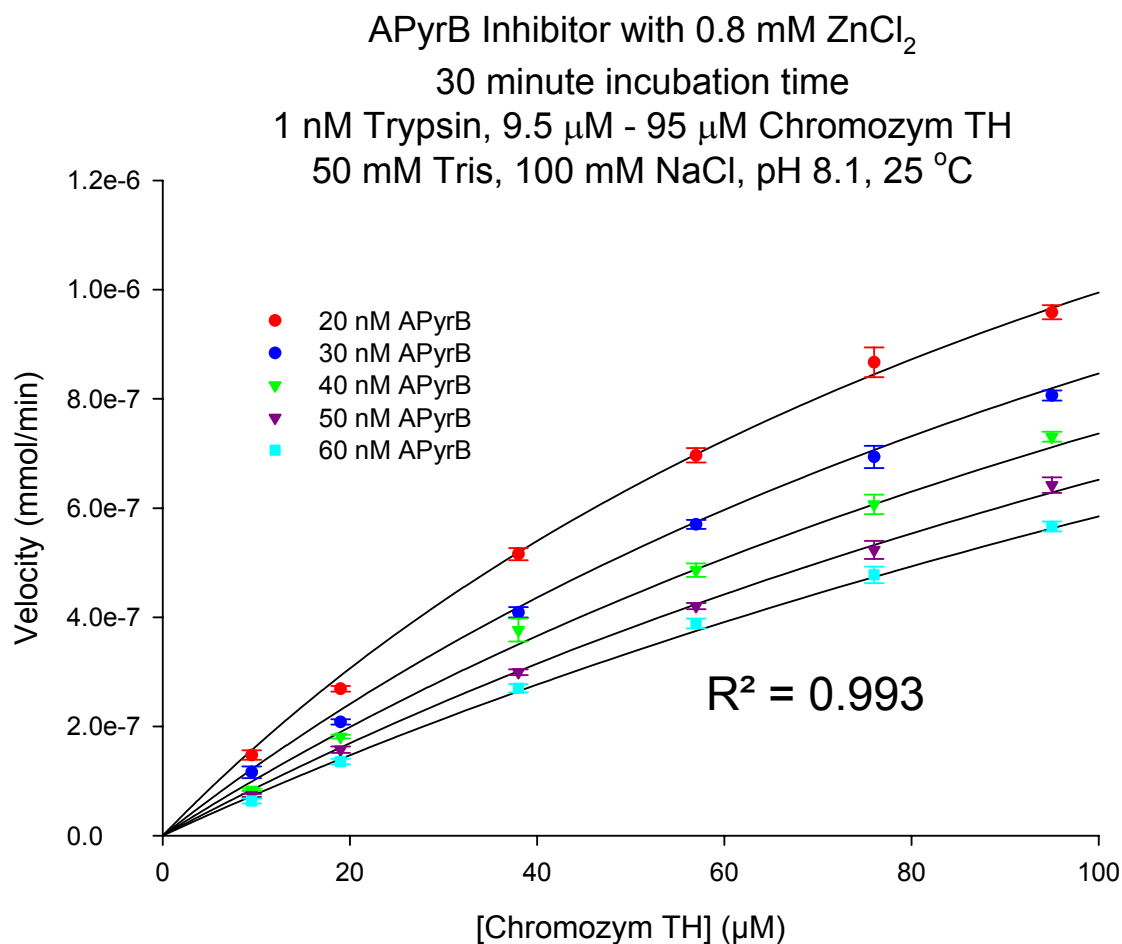
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**Figure S1.** Stability of trypsin as a function of incubation time at room temperature. Incubation times were no longer than 30 min for any given experiment.



**Figure S2.** Example of Michaelis-Menten Plot for the competitive inhibition of trypsin by APyrB in absence of metal ions. Equation for fit:  $v = V_{\max}/(1+(K_m/S)*(1+I/K_i))$ .



**Figure S3.** Example of Michaelis-Menten Plot for the tight-binding competitive inhibition of trypsin by APyrB in the presence of Zn<sup>2+</sup>. Equation for fit:  $v = (v_0/(2 \cdot E)) \cdot (E - I - K_{ap} + \sqrt{(E - I - K_{ap})^2 + 4 \cdot E \cdot K_{ap}})$  where  $v_0 = V_{max}/(K_m/S + 1)$  and  $K_{ap} = K_i \cdot ((S/K_m) + 1)$