

# BIOCHEMISTRY

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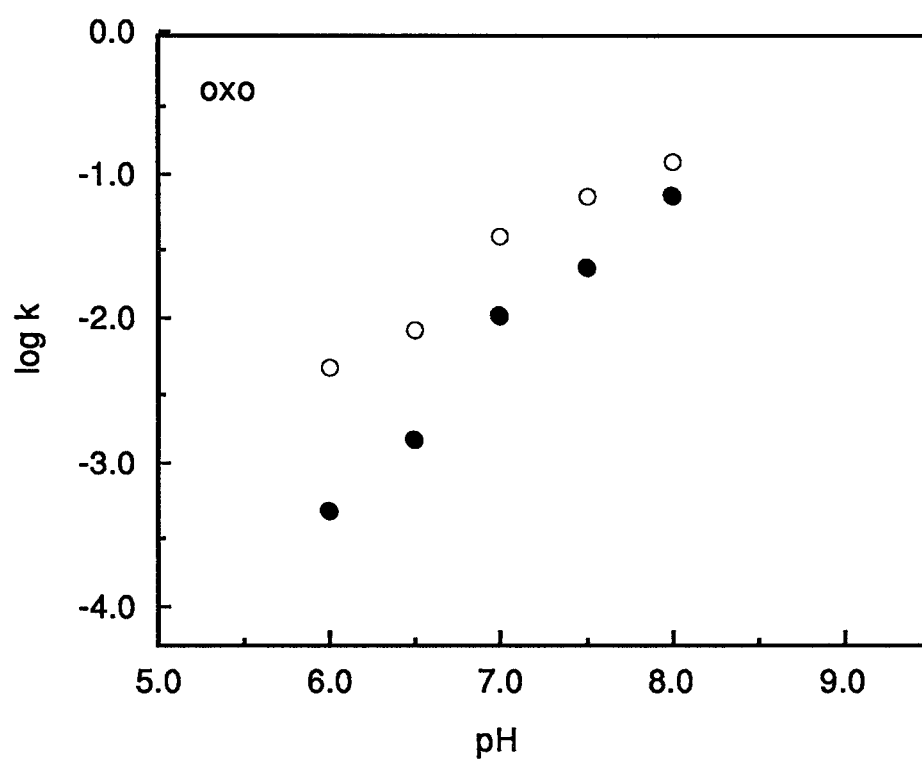


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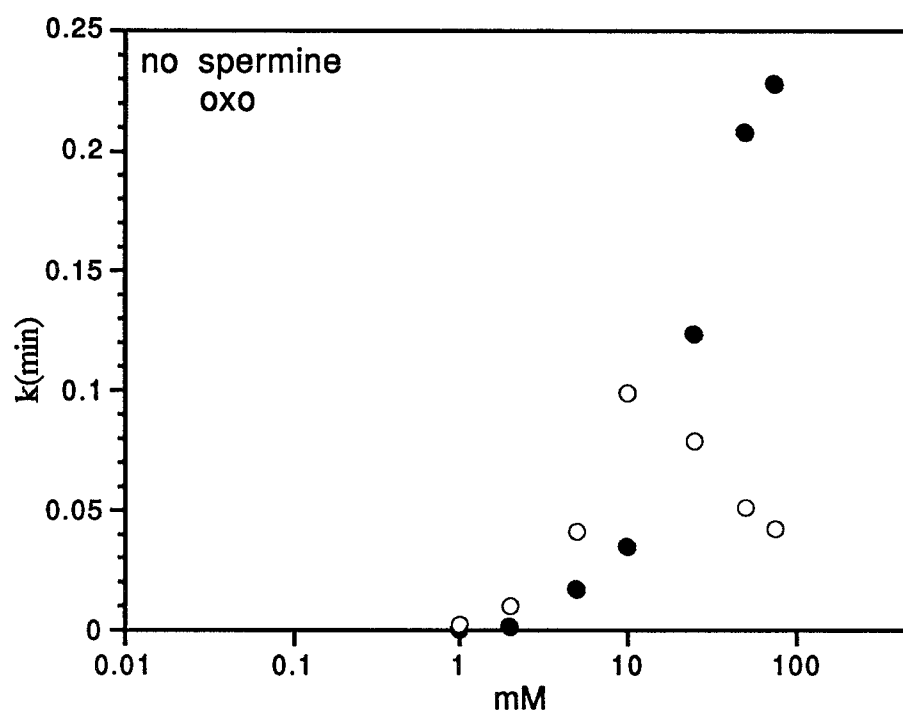
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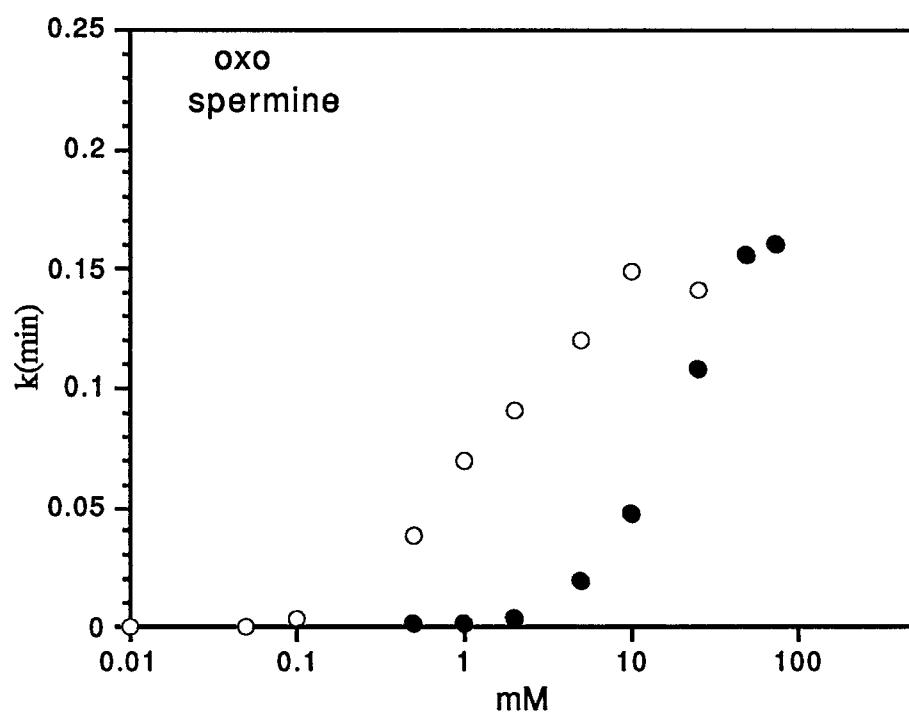
**Figure S1:** Hammerhead ribozyme-mediated cleavage rates for the oxo analogue **1** as a function of pH in the presence of (●) Mg<sup>2+</sup> or (○) Mn<sup>2+</sup>.

K-5317m2



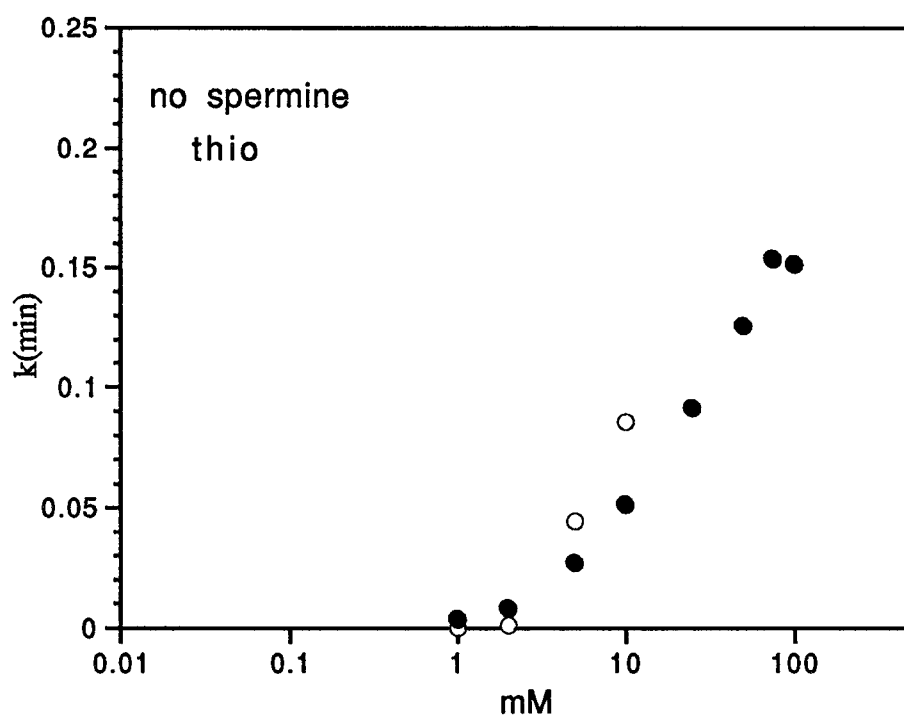
**Figure S2:** Hammerhead ribozyme-mediated cleavage rates of the oxo analogue **1** as a function of divalent metal concentration: (●)  $Mg^{2+}$ , (○)  $Mn^{2+}$ .

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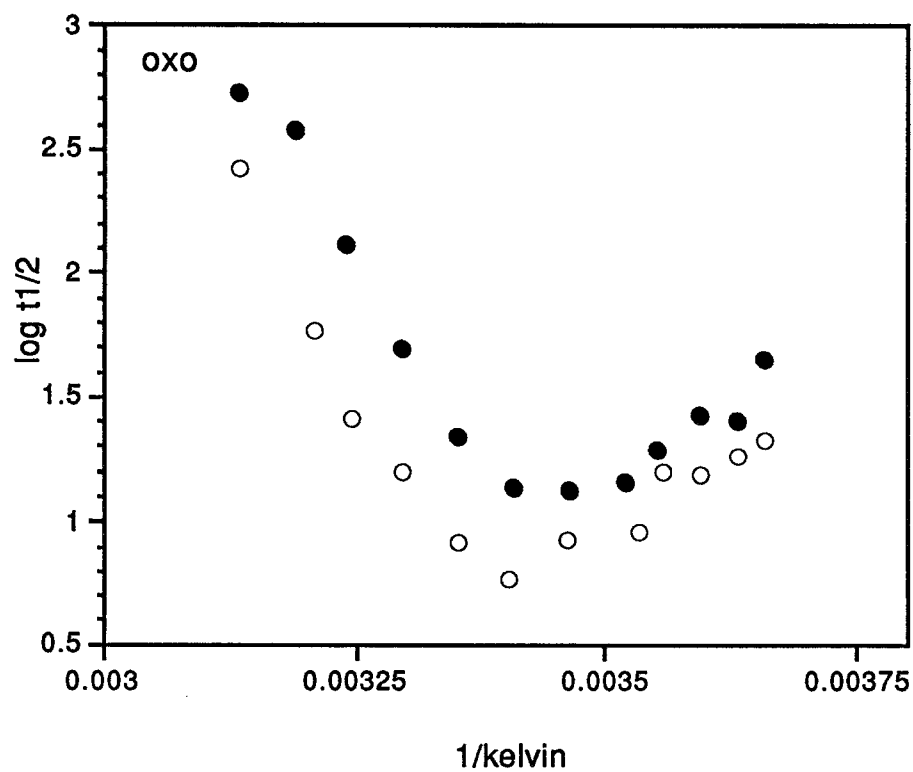


**Figure S3:** Hammerhead ribozyme-mediated cleavage rates of the oxo analogue **1** in the presence of 0.5 mM spermine as a function of divalent metal concentration: (●)  $Mg^{2+}$ , (○)  $Mn^{2+}$ .

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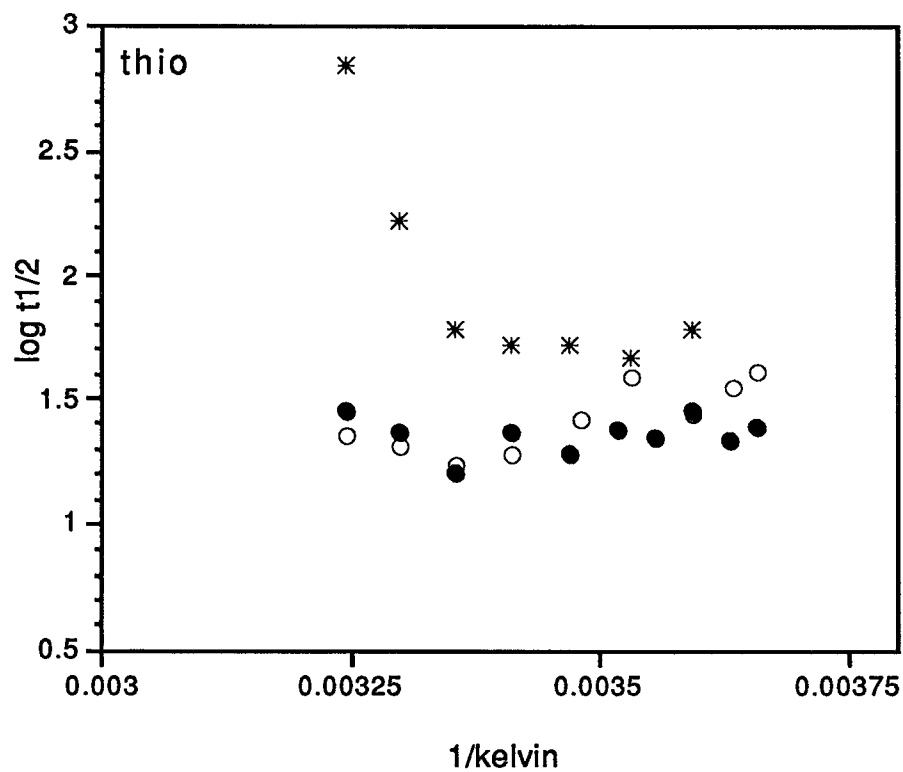


**Figure S4:** Hammerhead ribozyme-mediated cleavage rates of the thio analogue **2** as a function of divalent metal concentration: (●)  $\text{Mg}^{2+}$ , (○)  $\text{Mn}^{2+}$ .



**Figure S5:** Hammerhead ribozyme-mediated cleavage rates of the oxo analogue **1** as a function of temperature in the presence of (●) Mg<sup>2+</sup>, (○) Mn<sup>2+</sup>.

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**Figure S6:** Hammerhead ribozyme-mediated cleavage rates of the thio analogue **2** as a function of temperature in the presence of (●) Mg<sup>2+</sup>, (○) Mn<sup>2+</sup> or (\*) EDTA/spermine.