

Supporting Information

Kinetic analysis of arsenic-metalation of human metallothionein: Significance of the two-domain structure.

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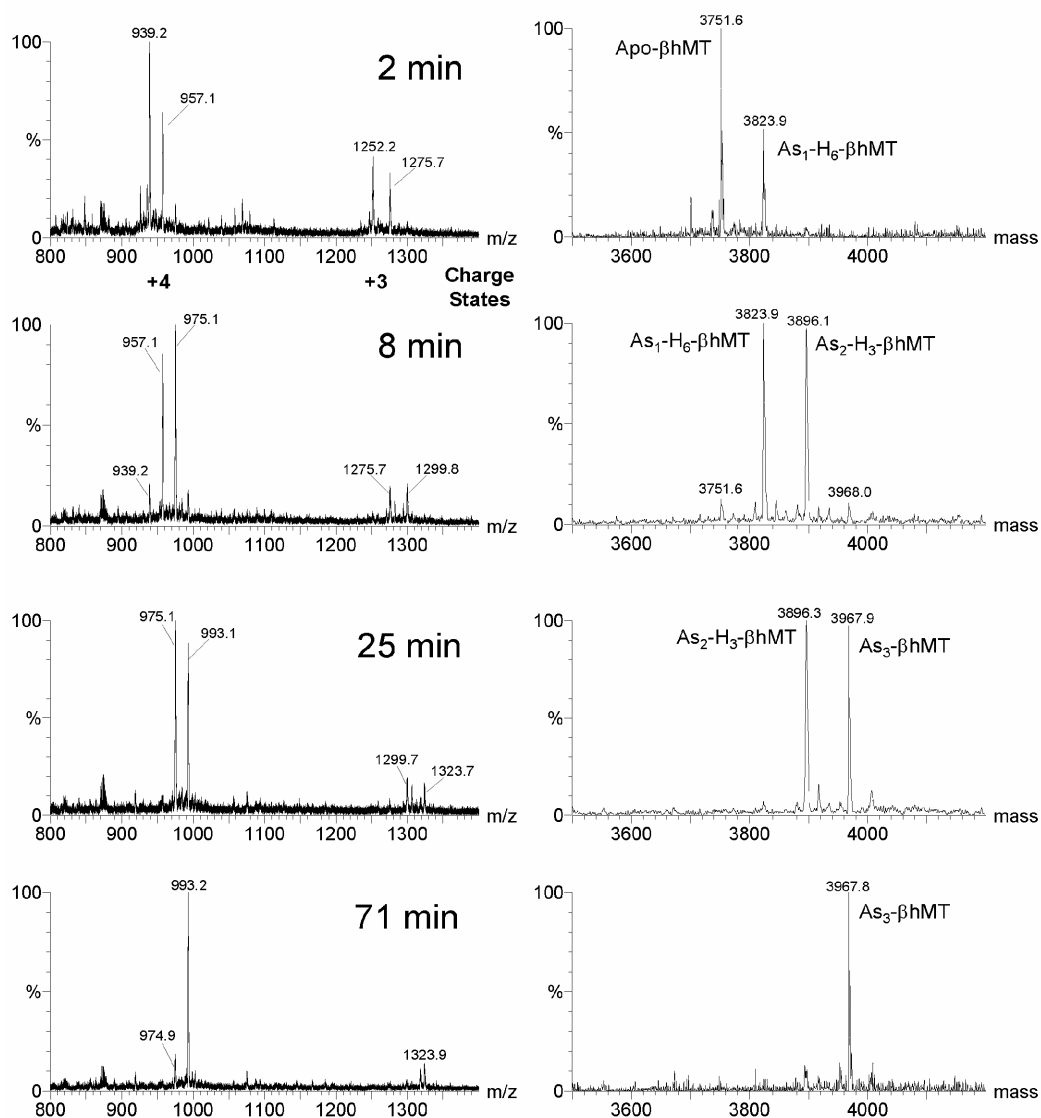


Figure S1. Time dependence of the ESI mass spectra of 30 μ M apo-βhMT in the presence As^{3+} in a stoichiometric ratio of 15:1 for As^{3+} : βhMT. The sample was continuously monitored using ESI-MS for over 80 minutes at 296 K and pH 3.5.

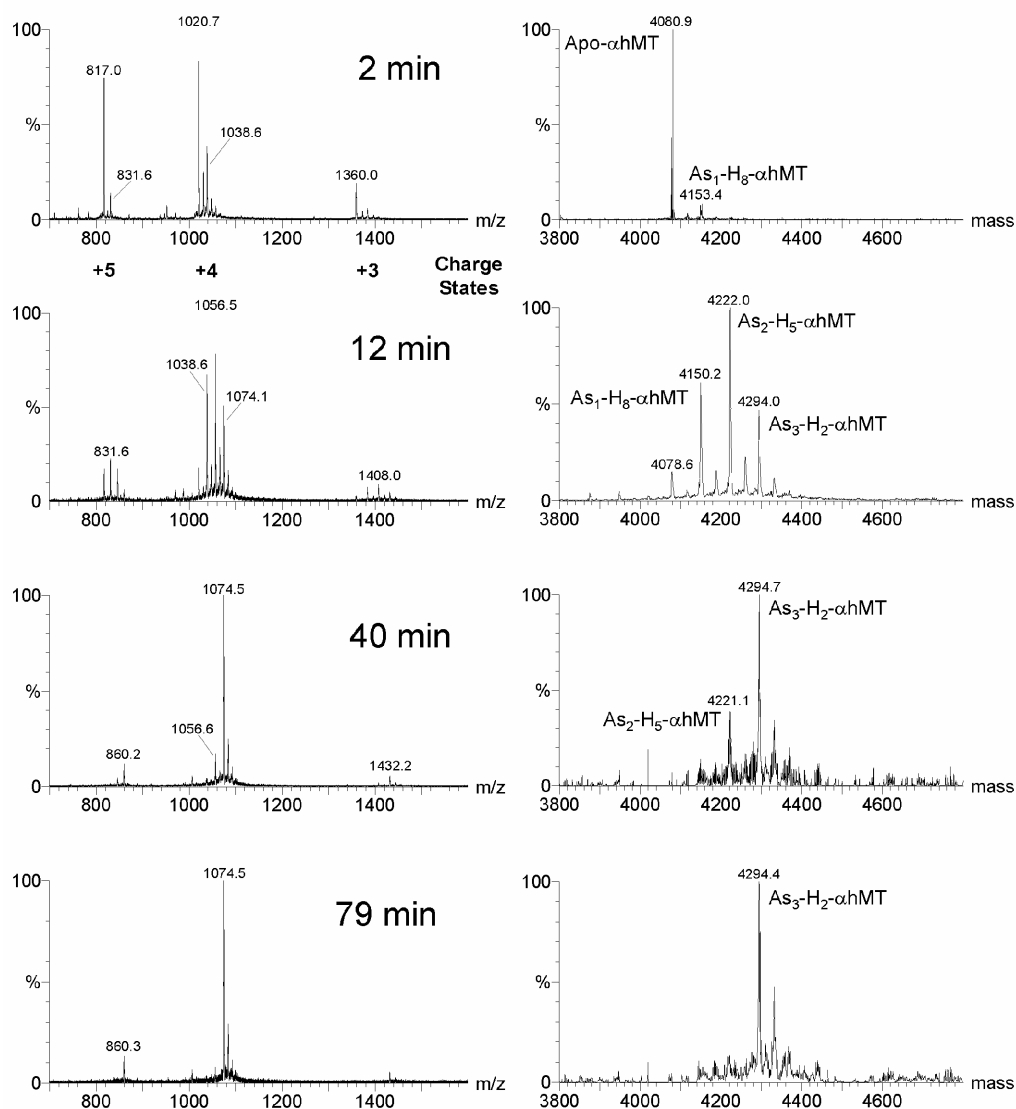


Figure S2. Time dependence of the ESI mass spectra of 23 μM apo- αhMT in the presence As^{3+} in a stoichiometric ratio of 10:1 for $\text{As}^{3+} : \alpha\text{hMT}$. The sample was continuously monitored using ESI-MS for over 80 minutes at 296 K and pH 3.5.

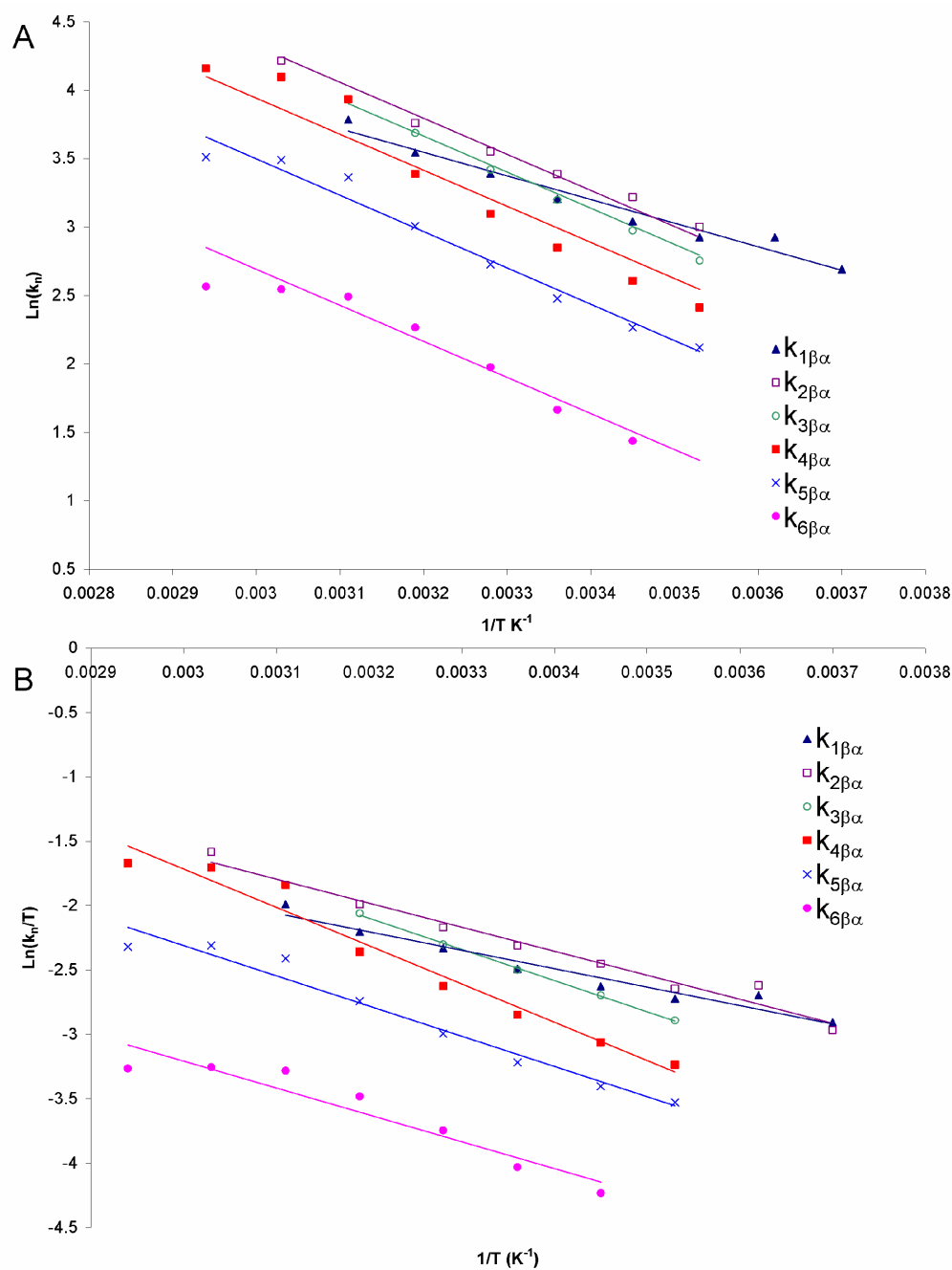


Figure S3 Plots of $\text{Ln}(k_n)$ vs $1/T$ (K^{-1}) (A) and $\text{Ln}(k_n/T)$ vs $1/T$ (K^{-1}) (B) for $\beta\alpha$ MT species, where $n = 1-6$ as shown on Scheme 1.