

## Supporting Information

### **Arsinous Acid as a Thiol Binding Group: Potential Cysteine Peptide Tagging Functionality that Binds a Single Thiol.**

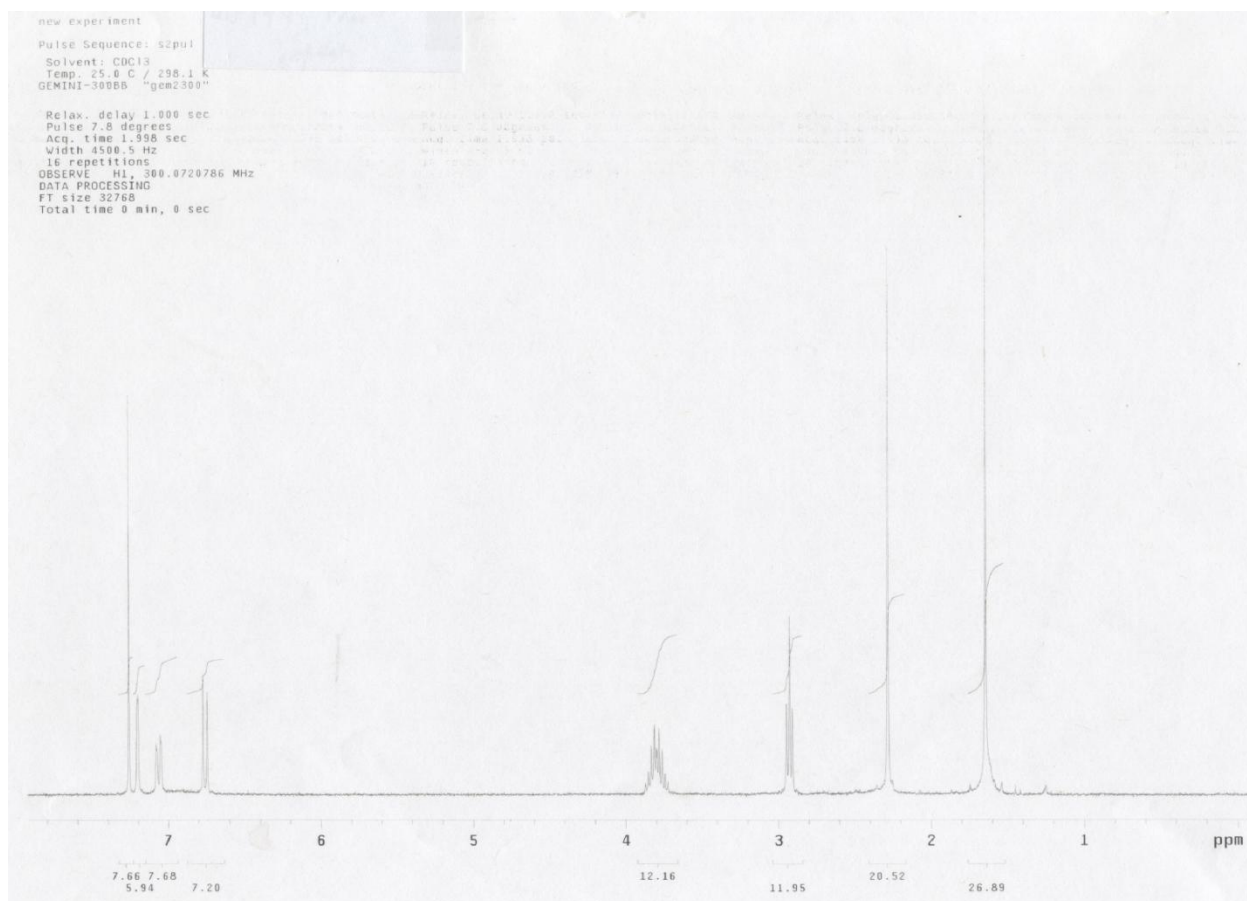
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$^1\text{H-NMR}$  (300 MHz,  $\text{CDCl}_3$ ) of **8**



$^1\text{H-NMR}$  (300 MHz,  $\text{D}_2\text{O} + \text{DMSO-d}_6$ ) of **9** + pinacol

