

Supporting Materials

Elucidation of Structural Restraints for Phosphate Residues with Different Hydrogen Bonding and Ionization States

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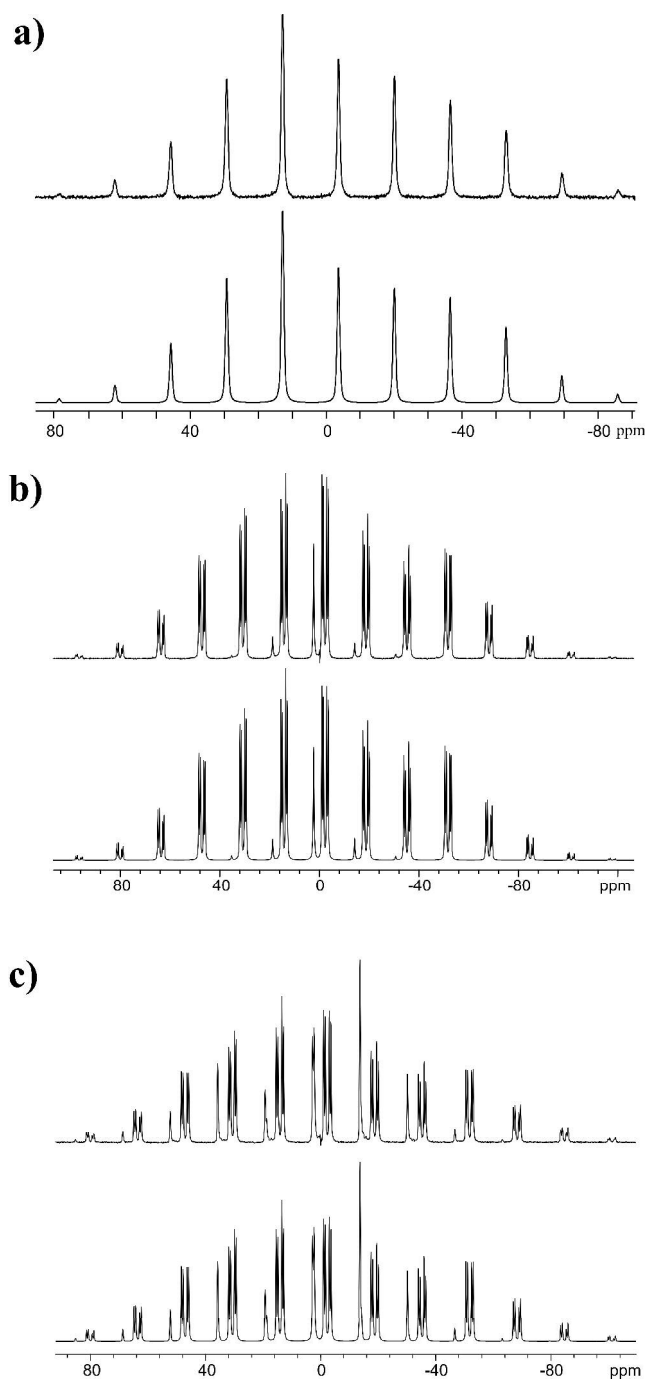


Figure 1S. The ^{31}P CP/MAS spectra recorded with a spinning rate of 2kHz. a) O-phospho-L-threonine **1**, b) ammonium salt of O-phospho-L-threonine **2**, c) mixture of ammonium and diammonium salts of O-phospho-L-threonine **2** and **3**. Experimental spectra are presented on the top and the appropriate fitted spectra obtained employing the SIMPSON program (below).

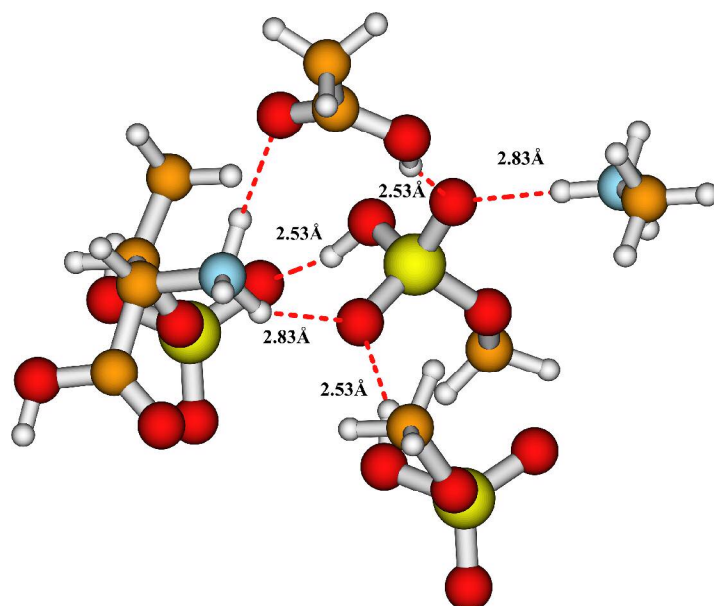


Figure 2S. The distances between heavy atoms involved in hydrogen bonds formed by the phosphate group (central molecule) of every independent molecule existing in one asymmetric unit of L-PThr are given in angstroms. Dotted lines show hydrogen bonds. For easier visualization, the threonine chains are replaced by CH₃ groups in this illustration.