

Letter to the Editor

NMR assignment of ^1H , ^{13}C and ^{15}N resonances of the truncated *Escherichia coli* RcsC (700–949), including the phosphoreceiver domain

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RcsC is a 949 amino acid long membrane associated multidomain hybrid sensor kinase, which participates in the Rcs phosphorelay pathway in eubacteria (Majdalani and Gottesman, 2005). To analyze the signalling mechanism of the Rcs phosphorelay system and structurally reconstitute the whole Rcs pathway, we have assigned the resonances of the C-terminal part of RcsC (RcsC_{700–949}, residues 700–949), possessing a phosphoreceiver domain and a long linker to the histidine kinase domain. A set of standard 3D triple-resonance spectra was collected for the sequential backbone and side-chain resonances assignment. The assignment was confirmed with [^{15}N , ^1H]-TROSY experiments on selectively labeled RcsC_{700–949} samples. Nearly complete backbone and side-chain resonance assignments were achieved for RcsC_{700–949}, except for the amino-acids 184–187. The resonance assignments and the chemical shift values for the RcsC_{700–949} protein have been deposited in the BioMagResBank under the accession number 6810.

Reference: Majdalani and Gottesman (2005) *Ann. Rev. Microbiol.*, **59**, 379–405.

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