Yeast two-hybrid screening and deletion mapping have revealed that the deletion mutant of the PKA regulatory subunit RIα(94–244) contains the primary determinants for the interaction with the catalytic subunit (Huang et al., 1998). Furthermore H/D exchange has shown that residues (94–118) are not significantly affected by cAMP (Anand et al., 2002). The RIα(119–244) domain is thus the minimal construct that contains the key structural elements necessary to understand the allosteric activation of PKA by cAMP. We have therefore initiated the NMR investigation of RIα(119–244). A total of 1262 1H, 13C and 15N assignments were made for RIα(119–244) resulting in an average of \( \approx 10 \) assignments per residue. Specifically, more than 97% of all backbone resonances and more than 78% of all side chain resonances were identified, including the assignment of 89% of the 1H side chain resonances. BMRB accession number 6984.


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Supplementary material to this paper is available in electronic format at http://dx.doi.org/10.1007/s10858-006-9050-9.