

## Letter to the Editor

### NMR assignment of the cAMP-binding domain A of the PKA regulatory subunit

DOI 10.1007/s10858-006-9050-9

Yeast two-hybrid screening and deletion mapping have revealed that the deletion mutant of the PKA regulatory subunit RI $\alpha$ (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 RI $\alpha$ (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 RI $\alpha$ (119–244). A total of 1262  $^1\text{H}$ ,  $^{13}\text{C}$  and  $^{15}\text{N}$  assignments were made for RI $\alpha$ (119–244) resulting in an average of  $\sim 10$  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  $^1\text{H}$  side chain resonances. BMRB accession number 6984.

References: Huang et al. (1998) *J. Biol. Chem.*, **273**, 26739–26746; Anand et al. (2002) *J. Mol. Biol.*, **323**, 377–386.

Veronica Esposito<sup>a</sup>, Tim Sjoberg<sup>b</sup>, Rahul Das<sup>a</sup>, Simon Brown<sup>b</sup>, Susan S. Taylor<sup>b</sup> & Giuseppe Melacini<sup>a,\*</sup>  
<sup>a</sup>*Departments of Chemistry, Biochemistry and Biomedical Sciences, McMaster University, 1280 Main St. W., Hamilton, Ontario, L8S 4M1 Canada;* <sup>b</sup>*Department of Chemistry and Biochemistry and Pharmacology, Howard Hughes Medical Institute, University of California, 9500 Gilman Dr., La Jolla, San Diego, CA 92093, USA*

\*To whom correspondence should be addressed. E-mail: melacin@mcmaster.ca

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