## Letters to the Editor

 $^{1}$ H,  $^{13}$ C and  $^{15}$ N resonance assignments of the backbone and methyl groups of the 24 kDa tetratricopeptide repeat domain in p67 $^{phox}$ 

DÕI 10.1007/s10858-005-5276-1

Tetratriopeptide repeat (TPR) domain in p67<sup>phox</sup>, is one of the components of phagocyte NADPH oxidase, that plays a pivotal role in the activation process of the NADPH oxidase by interacting GTP-bound Rac (Koga et al., 1999). To characterize the structural properties of the TPR domain and to identify the residues essential for Rac-binding, we initiated NMR assignments of the backbone and methyl groups of the 24 kDa TPR (p67<sup>phox</sup>; 1–203). We performed 2D and 3D heteronuclear NMR experiments using a Val, Leu, Ile ( $\delta$ 1) methyl  $^{1}$ H,  $^{2}$ H/ $^{13}$ C/ $^{15}$ N labeled TPR, etc. In total, 98% of the  $^{1}$ H $^{N}$ ,  $^{15}$ N resonances of backbone amide groups, and 99% of the  $^{13}$ C′,  $^{13}$ C $^{\alpha}$  and  $^{13}$ C $^{\beta}$  resonances were assigned. In addition, the  $^{1}$ H/ $^{13}$ C methyl resonances of Val and Leu residues and those of  $\delta$  methyl resonances of Ile residues were assigned. BMRB deposit with accession number 6399.

References: Koga, et al. (1999) J. Biol. Chem., 274, 25051-25060

Shinichi Yoshida<sup>a</sup>, Kenji Ogura<sup>a</sup>, Masashi Yokochi<sup>a,b</sup>, Satoru Yuzawa<sup>a,b</sup>, Masataka Horiuchi<sup>a</sup>, Hiroshi Morioka<sup>b,c</sup>, Hideki Sumimoto<sup>b,c</sup> & Fuyuhiko Inagaki<sup>a,b,\*</sup>

<sup>a</sup>Department of Structural Biology, Graduate School of Pharmaceutical Sciences, Hokkaido University, N-12, W-6, Kita-ku, Sapporo, 060-0812, Japan; <sup>b</sup>CREST, Japan Science and Technology Agency; <sup>c</sup>Medical Institute of Bioregulation, Kyushu University, Fukuoka, 812-8582, Japan

\*To whom correspondence should be addressed. E-mail: finagaki@pharm.hokudai.ac.jp **Supplementary material** to this paper is available in electronic format at http://dx.doi.org/10.1007/s10858-005-5276-1.

Resonance assignment of ABA-1A, from *Ascaris suum* nematode polyprotein allergen DOI 10.1007/s10858-005-6070-9

Nematode polyprotein allergens (NPAs) are ~15 kDa lipid-binding proteins produced by parasitic worms and by the free-living nematode C. elegans (Kennedy, 2000). Synthesised as a single polypeptide chain of tandemly repetitive units, the functional units are cleaved from the parent molecule at conserved amino acid tetrads (RXRR). We are investigating the structure of ABA-1A, a unit of the Ascaris suum NPA to understand the structural determinants of NPA lipid-binding and how these differ from mammalian FABPs. 2D and 3D heteronuclear spectra were used to assign uniformly  $^{15}$ N,  $^{13}$ C-labelled recombinant ABA-1A (McDermott et al., 2001) saturated with oleic acid. Assignment is essentially complete, with the exception of the carbonyl carbons, the N-terminal residues up to F3 and the C-terminal residues H132, T133. The amide resonance of D51 was not observed. Most other missing assignments are of lysine  $C_{\varepsilon}H_{\varepsilon}$  groups that are too overlapped to be resolved. Assignments deposited with BMRB accession number 6333. References: Kennedy, M.W. (2000) Biochim. Biophys. Acta., 1476, 149–164; McDermott et al. (2001) Biochemistry, 40, 9918–9926

Nicola A. G. Meenan<sup>a,\*</sup>, Alan Cooper<sup>a,\*</sup>, Malcolm W. Kennedy<sup>b\*</sup>, & Brian O. Smith<sup>c,\*</sup>

<sup>a</sup>Department of Chemistry, University of Glasgow, UK; <sup>b</sup>Division of Ecology and Evolutionary Biology, University of Glasgow, UK; <sup>c</sup>Division of Biochemistry and Molecular Biology, Institute of Biomedical & Life Sciences, University of Glasgow, Glasgow, G12 8QQ, UK

\*To whom correspondence should be addressed. E-mail: B.Smith@bio.gla.ac.uk

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