Letters to the Editor

GFT NMR based resonance assignment for the 21 kDa human protein UFC1 $_{\rm DOI~10.1007/s10858-005-7941-9}$

Protein UFC1 (NCBI ID: 9606) is target of the Northeast Structural Genomics Consortium (ID HR41) and belongs to a family of at least 22 homologues. Five GFT NMR experiments were performed for resonance assignment on a Varian INOVA 600 spectrometer equipped with a cryogenic probe (total measurement time: 140 h). 97% of the backbone shifts and 13 C $^{\beta}$ resonances (excluding terminal NH $_3$ $^+$, Pro 15 N, 13 C $^{\circ}$ shifts of residues preceding Pro residues), and 97% of the side chain resonances (excluding Lys NH $_3$ $^+$, Arg NH $_2$, OH, side chain 13 C $^{\circ}$ and aromatic quaternary 13 C) were assigned BMRB deposit with accession number 6546.

References: Kim and Szyperski (2003) *J. Am. Chem. Soc.*, **125**, 1385–1393; Atreya and Szyperski (2004) *PNAS*, *USA*, **101**, 9642–9647.

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NMR assignments of the winged-helix domain of human Werner syndrome protein DOI 10.1007/s10858-005-7960-6

Werner syndrome is a human genetic disease that mimics premature human aging (Yu et al., 1996). As a 1432-residue nuclear protein, Werner syndrome protein (WRN) contains multiple domains. The putative winged-helix (WH) subdomain of the RecQ helicase conserved region (RQC) of WRN has been shown to interact with DNA and 14 proteins (Lee et al., 2005). At present, there is complete lack of structural information about WRN. We report here the backbone and side-chain ¹H, ¹³C and ¹⁵N resonance assignments of the WH domain (residues 949–1092) of WRN using multidimensional heteronuclear NMR with ¹³C, ¹⁵N-labeled WH. Essentially complete assignments for the backbone and side-chain resonances were obtained for all 144 residues. Only missing assignments include ¹H^N-¹⁵N resonances for G978, N990, Q997, S1002, S1032, K1036, and K1045, ¹H^δ-¹⁵N^δ resonance for N1035, ¹H^γ-¹³C^γ resonances for E975, P982, R1033, and L1061, ¹H^δ-¹³C^δ resonances for P961, P982, R1033, 11040, L1061, and P1077, and five Phe aromatic ring resonances. BMRB deposits with accession number 6540.

References: Yu et al. (1996) Science, 272, 258-262; Lee et al. (2005) Mech. Ageing Dev., 126, 79-86.

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