Journal of Biomolecular NMR (2006) 36:43

Letter to the Editor

NMR assignment of a structurally uncharacterised fragment of recombinant mouse ubiquitin-activating enzyme

DOI 10.1007/s10858-006-9015-z

Ubiquitin-activating enzyme (E1) catalyzes the first step of the ubiquitination pathway. The 3D structure of the enzyme remains unknown, but the domain organization can be deduced. Recently, it was shown that so-called ''catalytic domain'' can be split into two autonomously foldable fragments (Szczepanowski et al., 2005). Here we report sequence-specific backbone and side-chain assignments of the First Catalytic Cysteine Half-domain (FCCH) – residues 202–312 of the full length sequence. The results indicate that the secondary structure of FCCH comprises six β-strands and one short (one turn) 3_{10}-helix. BMRB accession number 7053.

Reference: Szczepanowski et al. (2005) *J. Biol. Chem.*, **280**, 22006–22011.

Łukasz Jaremko[a,†], Mariusz Jaremko[a,†], Renata Filipek[b,c], Marek Wojciechowski[b,c], Roman H. Szczepanowski[b,c], Matthias Bochtler[b,c], Igor Zhukov[d,*]

[a]*Faculty of Chemistry, University of Wrocław, 50-383, ul. F. Joliot-Curie 14, Wroclaw, Poland;* [b]*International Institute of Molecular and Cell Biology, 02-109, ul. Trojdena 4, Warsaw, Poland;* [c]*Max-Planck-Institute for Molecular Cell Biology and Genetics, Pfotenhauerstr. 108, 01309, Dresden, Germany;* [d]*Institute of Biochemistry and Biophysics, Polish Academy of Sciences, 02-106, ul. Pawińskiego 5a, Warsaw, Poland*

[†]Authors participated equally in this work.

*To whom correspondence should be addressed. E-mail: igor@ibb.waw.pl

Supplementary material is available at http://www.dx.doi.org/10.1007/s10858-006-9015-z.