

Letter to the Editor

NMR assignment of the phosphotyrosine binding (PTB) domain of tensin

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Tensin is a protein localized to the focal adhesions which are specialized regions of the plasma membrane formed around a transmembrane core of an integrin heterodimer (Lo, 2004). The protein possesses at the C-terminus a phosphotyrosine binding (PTB) domain that interact with the NPXY motif (X = generic aminoacid) of the cytoplasmatic tail of β -integrins (Calderon et al., 2003). Previous studies lead to speculate that this protein may be a target for therapeutic intervention in cancer (Lo, 2004). To get insights into the structural basis of integrins recognition by tensin, NMR structural and binding studies were initiated. Here we present ^{13}C , ^{15}N and ^1H NMR assignments of the PTB domain of chicken tensin 1 (140 a.a.). Assignments were obtained for 91% of assignable $^{13}\text{C}\alpha$, $^{13}\text{C}\beta$ and ^{13}CO atoms, 90% ^{15}N backbone atoms, 79% of all assignable protons (including backbone and side-chains). Unassigned backbone amide signals correspond to G1, S2, H3, L64, F65, F66, T88, T90, G107 and T109. Chemical shift values for aromatic protons were reported (apart from those of H3, F65, F66, F117 and the HH2, HZ3 and HE3 atoms of W87). BMRB deposit with Accession No. 6986.

References: Lo (2004) *Int. J. Biochem. Cell Biol.*, **36**, 31–34; Calderwood et al. (2003) *PNAS*, **100**, 2272–2277.

Marilisa Leone, Eric Chi-Wang Yu, Robert Liddington, Maurizio Pellecchia*
Burnham Institute for Medical Research, Infectious and Inflammatory Disease Center and Cancer Center, 10901 North Torrey Pines Rd, La Jolla, CA 92037, USA

*To whom correspondence should be addressed. E-mail: mpellecchia@burnham.org

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