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# Letter to the Editor

## $^{1}H$, $^{15}N$ and $^{13}C$ assignments of the cysteine protease inhibitor Chagasin from *Trypanosoma cruzi*

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Chagasin was characterized in *T. cruzi* (Monteiro et al., 2001) as novel type of tight-binding inhibitor of cruzipain, the major *T. cruzi* cysteine protease, which belongs to the papain superfamily. It was recently reported that chagasin by tuning cruzipain activity might modulate both parasite differentiation and infectivity of mammalian cells (Santos et al., 2005). Aiming to study the chagasin structure in solution, its backbone dynamics and the mapping of its interaction with cruzipain by $^{15}N$-HSQC based experiments (Salmon et al., 2006) we have expressed, isolated and assigned a 111-residue chagasin construct. 2D and 3D NMR experiments were acquired at 298 K in a Bruker DRX600 spectrometer on unlabeled, $^{15}N$-labeled or $^{15}N$, $^{13}C$ double-labeled chagasin samples. More than 95% of backbone and side chain $^{1}H$, $^{13}C$ and $^{15}N$ nuclei have been assigned. H98 is the only missing backbone amide signal. BMRB deposition with Accession No. 6876.

References: Monteiro et al. (2001) *J. Cell. Sci.*, **114**, 3933–3942; Santos et al. (2005) *J. Cell. Sci.*, **118**, 901–915; Salmon et al. (2006) *J. Mol. Biol.*, **357**, 1511–1521.

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