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**Supporting information for article:**

**A distance geometry-based description and validation of protein main-chain conformation**

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## Supplementary videos

**Figure S1** Conformational transition of the dipeptide units along the DipSpace  $pc1$  axis, demonstrating their ‘extension’.

**Figure S2** Conformational transition of the dipeptide units along the DipSpace  $pc2$  axis, demonstrating their ‘twist’.

**Figure S3** Conformational transition of the dipeptide units along the DipSpace  $pc3$  axis, demonstrating their ‘bending’.