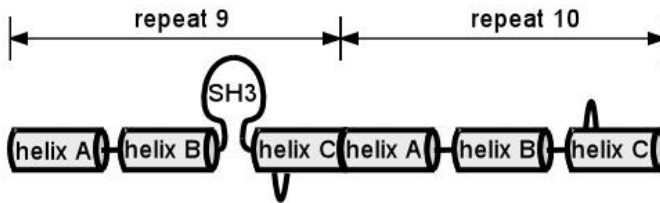


STABILITY OF THE SPECTRIN REPEAT UNITSLARS BACKMAN and LARS LÖFVENBERG

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We have used CD and fluorescence spectroscopy to study the SH3-containing region of α II-spectrin, and compared how the stability of one or two consecutive repeat units is influenced by the SH3 domain as well as by the insert in helix C of repeat 9.



The results indicate that the stability of a single repeat unit is much lower than that of two consecutive repeats. The results also show that insertion of the SH3 domain in repeat 9 reduces the stability compared to a non-interrupted repeat unit, probably by interfering with the interactions between the three helices in the repeat. The additional insert due to alternative splicing has only a minor effect on the stability.