Temperature vs experimental CD at 222nm

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| Temperature / | CD/mdeg |
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From the second order derivative plot Tm=72.5°C,

melting temperature measured experimentally

**Calculations and plots:**

At 25°C, considering 100% folded protein, after fitting the secondary structure content was found to be α-helix=50.44%, β- sheet=15.94% and random coil= 33.61%. The simulated spectra using the mentioned parameters is shown below. Peaks at 208 nm and 222 nm were observed indicating the presence of α-helix.