

Diagram illustrating the structure of a 20-nucleotide RNA hairpin. The sequence is 5'-C-U-A-C-G-G-U-3'. The structure shows a stem-loop with a 4-bp stem (C-G, U-C, A-U, G-U) and a 3-nucleotide loop (U-A-G). The stem is formed by base pairing between the 2nd and 7th nucleotides (U-A), 3rd and 6th (A-U), 4th and 5th (C-G), and 1st and 8th (C-G). The loop contains nucleotides 9-11 (U-A-G). The 5' end is a C, and the 3' end is a U. The diagram uses color coding: red lines for C-G pairs, green lines for U-C pairs, and a blue line for the A-U pair. The energy value $dG = -2 \text{ dme}$ is indicated at the bottom.

$$dG = -2 \, dme$$