

RNA

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Cover Illustration: PreQ₁ riboswitch (PDB id: 6e1w; Connelly CM, Numata T, Boer RE, Moon MH, Sinniah RS, Barchi JJ, Ferre-D'Amare AR, Schneekloth Jr JS. 2019. Synthetic ligands for PreQ₁ riboswitches provide structural and mechanistic insights into targeting RNA tertiary structure. *Nat Commun* **10**: 1501). Class I PreQ₁ riboswitch regulates downstream gene expression in response to its cognate ligand PreQ₁ (7-aminomethyl-7-deazaguanine). RNA is displayed as a red ribbon; block bases use NDB colors: A—red, C—yellow, G—green, U—cyan; PreQ₁ is displayed as spheres; acetate ligands are shown as sticks. The 3'-end of the RNA strand in the foreground is shown in orange. The image was generated using 3DNA/blocview and PyMol software. Cover image provided by the Nucleic Acid Database (ndbserver.rutgers.edu).

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