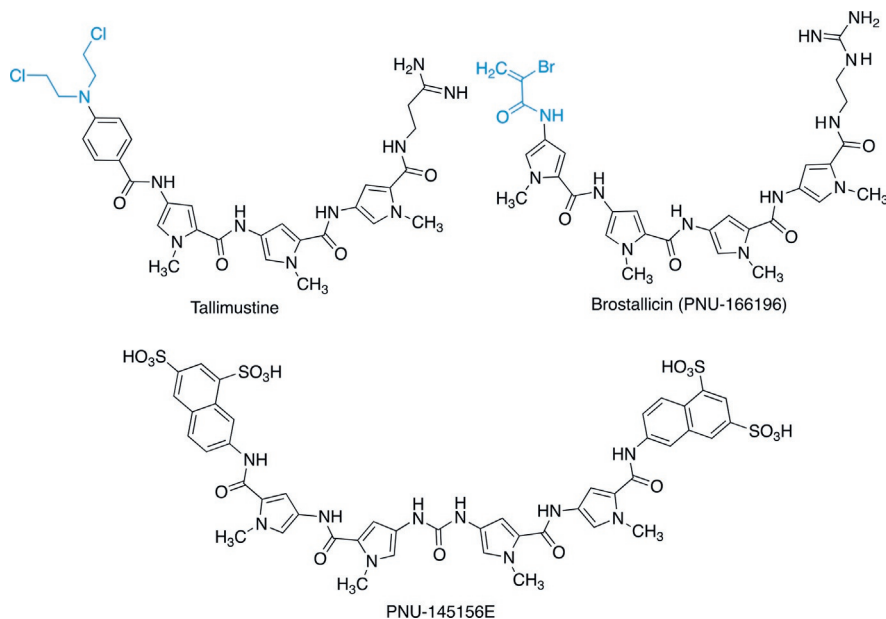


FIGURE 6.5

Three-centered hydrogen bonds in the distamycin A–DNA interaction.



Tallimustine (FCE 24517) contains a benzoyl nitrogen mustard unit, which acts as an alkylating moiety, attached to the distamycin A framework. This compound exhibits a most striking DNA sequence specificity of alkylation, which has been studied using the combinatorial selection method restriction endonuclease protection, selection, and amplification (REPSA).<sup>6</sup> The highest affinity tallimustine