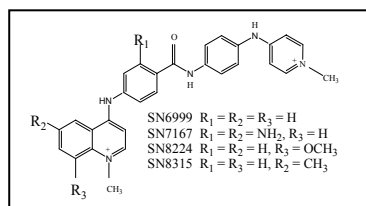


Crystal Structures of Two Minor Groove Binders Complexed with d(CGCGAATTCGCG)₂

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Quinolinium quaternary salts (QQS) are anticancer drugs [1] and bind reversibly in the minor groove of AT rich sites in DNA. The crystal structures of SN6999 [2] and SN7167 [3] complexed with CGC[e⁶G]AATTCGCG and CGCGAATTCGCG respectively have been solved previously at a resolution of about 2.5 Å. We have recently solved the structures of two new QQS compounds, SN8224 and SN8315, complexed with the dodecamer CGCGAATTCGCG. These two structures are at higher resolution (1.6 and 1.8 Å) and



crystallise in similar conditions. We are able to compare the four complex structures and reach conclusions about minor groove requirements for QQS compounds bound to unmodified DNA.

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