Synthesis of Halogen Substituted 3-Deazaadenosine and 3-Deazaguanosine Analogues as Potential Antitumor/Antiviral Agents

**Description:**

Various 2-halogen substituted analogues, 3-halogen substituted analogues and 2’3’-dihalogen substituted analogues of 3-deazaadenosine and 3-halogen substituted analogues of 3-deazaguanosine have been synthesized as potential anticancer and/or antiviral agents.

**Field of Application:** HIV, HBV and bacterial infections.

**Advantages:** 3-Deazaadenosine shows significant activity against herpes simplex virus type-1, HIV and oncogenic DNA viruses. 3-Deazaguanosine has been reported to possess broad spectrum antiviral activity against the L1210 leukemia and several mammary adenocarcinoma.

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