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Design, synthesis and anticancer activity of fluorocyclopentenyl-purines and – pyrimidines

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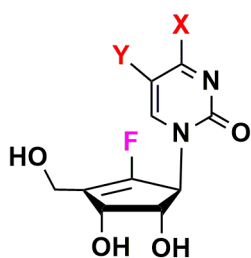
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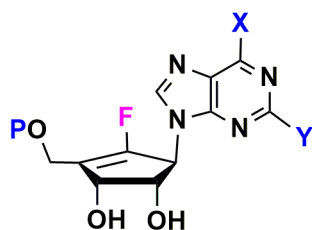




X = OH or NH₂
Y = H, F, Cl, Br, or I

Anticancer activity

X : NH₂ > OH
Y : H > halogen



X = NH₂, NHMe, NH-cyclopropyl or OH
Y = H or NH₂

P = H or phosphoramidite

Anticancer activity

X : NH₂ > NHMe > NHCP > OH
Y : H > NH₂
P : H > phosphormidite

A systematic structure-activity relationship study of 6'-fluorocyclopentenyl-pyrimidines and -purines as anticancer agents is described

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