

Open Peer Review on Qeios

## Nucleoside Analog DFP-10917

National Cancer Institute

## Source

National Cancer Institute. <u>Nucleoside Analog DFP-10917</u>. NCI Thesaurus. Code C116744.

A deoxycytosine analog with potential antineoplastic activity. Upon administration, DFP-10917 is phosphorylated to generate its nucleotide form that functions as a deoxycytosine mimic and is incorporated into DNA in tumor cells. This causes DNA strand breaks during polymerization due to beta-elimination during the fidelity checkpoint, which results in G2/M phase-arrest and tumor cell apoptosis.

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