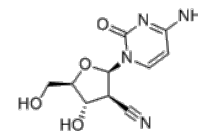


**Product Name** : DFP-10917 hydrochloride  
**Cat. No.** : PC-35236  
**CAS No.** : 135598-68-4  
**Molecular Formula** : C<sub>10</sub>H<sub>13</sub>N<sub>4</sub>O<sub>4</sub>  
**Molecular Weight** : 288.69  
**Target** : Nucleoside Antimetabolite/Analog  
**Solubility** : 10 mM in DMSO



## Biological Activity

DFP-10917 hydrochloride (CNDAC, TAS-109) is a deoxycytidine analog with antitumor activity against various tumor cells, is an orally available nucleoside analog prodrug of CNDAC.

CNDAC is phosphorylated to generate its nucleotide form, functioning as a deoxycytosine mimic and is incorporated into DNA in tumor cells, causes DNA strand breaks during polymerization due to beta-elimination during the fidelity checkpoint, resulting in G2/M phase-arrest and tumor cell apoptosis.

## References

- Matsuda A, et al. J Med Chem. 1991 Sep;34(9):2917-9.  
Sankhala K, et al. Invest New Drugs. 2018 Apr 18. doi: 10.1007/s10637-018-0602-0.  
Hanaoka K, et al. Int J Cancer. 1999 Jul 19;82(2):226-36.  
Tanaka M, et al. Cancer Lett. 1992 May 30;64(1):67-74.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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