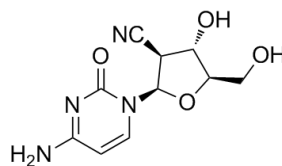


Product Name	: DFP-10917
Synonyms	: CNDAC; TAS-109
Cat No.	: M11458
CAS Number	: 135598-68-4
Molecular Formula	: C ₁₀ H ₁₂ N ₄ O ₄
Formula Weight	: 252.23
Chemical Name	: (2R,3S,4S,5R)-2-(4-amino-2-oxopyrimidin-1(2H)-yl)-4-hydroxy-5-(hydroxymethyl)tetrahydrofuran-3-carbonitrile
Description	<p>DFP-10917 (CNDAC, TAS-109) is a deoxycytidine analog with antitumor activity against various tumor cells; is an orally available nucleoside analog prodrug of CNDAC, CNDAC (DFP-10917) 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. Blood Cancer Phase 2 Clinical</p>
Pathway	: Cell Cycle/DNA Damage
Target	: Nucleoside Antimetabolite/Analog
Receptor	: Nucleoside Antimetabolite/Analog
Solubility	: —
SMILES	: <chem>N#C[C@H]1[C@H](N2C=CC(N)=NC2=O)O[C@H](CO)[C@H]1O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:



1. Matsuda A, et al. J Med Chem. 1991 Sep;34(9):2917-9. | 2. Sankhala K, et al. Invest New Drugs. 2018 Apr 18. doi: 10.1007/s10637-018-0602-0. | 3. Hanaoka K, et al. Int J Cancer. 1999 Jul 19;82(2):226-36. | 4. Tanaka M, et al. Cancer Lett. 1992 May 30;64(1):67-74.