

Product Datasheet

CNDAC hydrochloride

Catalog No. **BP-02503A** · CAS **134665-72-8** · Form **salt · hydrochloride** · Physical state **other** · Color **White to off-white** · Version **1.0** · Revision **2026-09-10**

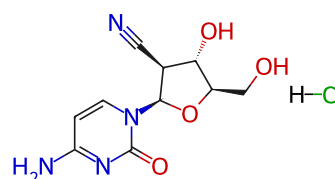
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Target	Research area
Nucleoside Antimetabolite/Analog; Drug MetaboliteApoptosis; DNA/RNA Synthesis	Cancer

Molecular formula **C₁₀H₁₃CIN₄O₄**

Molecular weight **288.6880**

STRUCTURE



DESCRIPTION

CNDAC hydrochloride is a metabolite of the orally active agent Sapacitabine , and a nucleoside analog. CNDAC hydrochloride induces DNA damage and apoptosis .

BIOLOGICAL ACTIVITY

CNDAC hydrochloride is a metabolite of Sapacitabine, and it is a nucleoside analog. CNDAC hydrochloride induces DNA damage and apoptosis. CNDAC (20mg/kg; i.p.; daily for 10 days) greatly increased the survival time and survival rate in CDF1 mice P388 tumor model.

SOLUBILITY

Soluble in DMSO

REFERENCES

- [1]. Liu XJ, et al. Sapacitabine, the prodrug of CNDAC, is a nucleoside analog with a unique action mechanism of inducing DNA strand breaks. Chin J Cancer. 2012 Aug;31(8):373-80.
- [2]. Jagan S, et al. Bone Marrow and Peripheral Blood AML Cells Are Highly Sensitive to CNDAC, the Active Form of Sapacitabine. Adv Hematol. 2012;2012:727683.
- [3]. Serova M, et al. Antiproliferative effects of sapacitabine (CYC682), a novel 2'-deoxycytidine-derivative, in human cancer cells. Br J Cancer. 2007 Sep 3;97(5):628-36.
- [4]. Azuma A, et al. Nucleosides and nucleotides. 122. 2'-C-cyano-2'-deoxy-1-beta-D-arabinofuranosylcytosine and its derivatives. A new class of nucleoside with a broad antitumor spectrum. J Med Chem. 1993 Dec 24;36(26):4183-9.

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Lot CoA and SDS are separate documents.