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Zuschläge

- Mindermengenzuschlag
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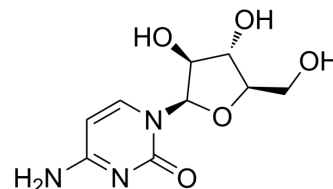
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Cytarabine (Standard)

Cat. No.:	HY-13605R
CAS No.:	147-94-4
Molecular Formula:	C ₉ H ₁₃ N ₃ O ₅
Molecular Weight:	243.22
Target:	Apoptosis; DNA/RNA Synthesis; Nucleoside Antimetabolite/Analog; Autophagy; Orthopoxvirus; HSV; Endogenous Metabolite
Pathway:	Apoptosis; Cell Cycle/DNA Damage; Autophagy; Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cytarabine (Standard) is the analytical standard of Cytarabine. This product is intended for research and analytical applications. Cytarabine, a nucleoside analog, causes S phase cell cycle arrest and inhibits DNA polymerase. Cytarabine inhibits DNA synthesis with an IC ₅₀ of 16 nM. Cytarabine has antiviral effects against HSV. Cytarabine shows anti-orthopoxvirus activity.
IC₅₀ & Target	IC50: 16 nM (DNA synthesis)

REFERENCES

- [1]. Tobias, S.C. and R.F. Borch, Synthesis and biological evaluation of a cytarabine phosphoramidate prodrug. *Mol Pharm*, 2004. 1(2): p. 112-6.
- [2]. Besirli, C.G., et al. Cytosine arabinoside rapidly activates Bax-dependent apoptosis and a delayed Bax-independent death pathway in sympathetic neurons. *Cell Death Differ*, 2003. 10(9): p. 1045-58.
- [3]. Yamauchi, H., et al., Involvement of p53 in 1-beta-D-arabinofuranosylcytosine-induced trophoblastic cell apoptosis and impaired proliferation in rat placenta. *Biol Reprod*, 2004. 70(6): p. 1762-7.
- [4]. Richel, D.J., et al., Comparison of the antileukaemic activity of 5 aza-2-deoxycytidine and arabinofuranosyl-cytosine in rats with myelocytic leukaemia. *Br J Cancer*, 1988. 58(6): p. 730-3.
- [5]. Shepshelovich D, et al. Pharmacodynamics of cytarabine induced leucopenia: a retrospective cohort study. *Br J Clin Pharmacol*. 2015 Apr;79(4):685-91.
- [6]. Renis HE. Antiviral activity of cytarabine in herpesvirus-infected rats. *Antimicrob Agents Chemother*. 1973 Oct;4(4):439-44.
- [7]. Gruffaz M, Zhou S, Vasan K, et al. Repurposing Cytarabine for Treating Primary Effusion Lymphoma by Targeting Kaposi's Sarcoma-Associated Herpesvirus Latent and Lytic Replications. *mBio*. 2018;9(3):e00756-18. Published 2018 May 8.
- [8]. Smee DF, et al. A review of compounds exhibiting anti-orthopoxvirus activity in animal models. *Antiviral Res*. 2003 Jan;57(1-2):41-52.

Caution: Product has not been fully validated for medical applications. For research use only.

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