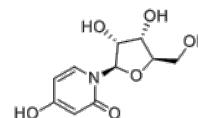


Product Name : 3-Deazauridine
Cat. No. : PC-38579
CAS No. : 23205-42-7
Molecular Formula : C₁₀H₁₃NO₆
Molecular Weight : 243.21
Target : Nucleoside Antimetabolite/Analog
Solubility : 10 mM in DMSO



Biological Activity

3-Deazauridine (DAU, NSC 126849) is a nucleoside analog that competitively inhibits **cytidine triphosphate synthetase** (CTP).

3-Deazauridine inhibits the growth of L1210 leukemia cells when used at a concentration of 6 μM and dose-dependently reduces mortality in a mouse model of leukemia.

3-Deazauridine selectively suppresses cell viability in a MYC-dependent manner in ARPE-19 cells.

3-Deazauridine causes selective replication stress in MYC-overexpressing cells, which originates from MYC-driven rRNA synthesis.

3-Deazauridine combined with ATR inhibitor BAY-1895344 induces synthetic lethality to MYC-overexpressing cells, and suppresses tumor growth in 3D assays and in vivo.

References

Bloch, A., et al. J. Med. Chem. 16(3), 294-297 (1973).

Zhe Sun, et al. Cancer Res. 2022 Mar 15;82(6):1013-1024.

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

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