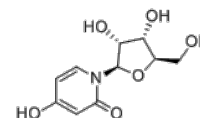


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<b>Product Name</b>	: 3-Deazauridine
<b>Cat. No.</b>	: PC-38579
<b>CAS No.</b>	: 23205-42-7
<b>Molecular Formula</b>	: C <sub>10</sub> H <sub>13</sub> NO <sub>6</sub>
<b>Molecular Weight</b>	: 243.21
<b>Target</b>	: Nucleoside Antimetabolite/Analog
<b>Solubility</b>	: 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  $\mu$ M 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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