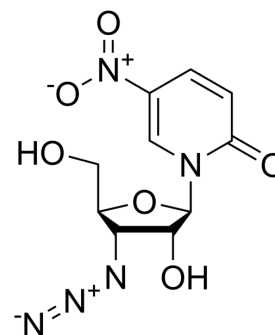


## 5-Nitro-1-(3-azido-3-deoxy-β-D-ribofuranosyl)-2(1H)-pyridinone

Cat. No.:	HY-154146
CAS No.:	2072145-26-5
Molecular Formula:	C <sub>10</sub> H <sub>11</sub> N <sub>5</sub> O <sub>6</sub>
Molecular Weight:	297.22
Target:	Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

5-Nitro-1-(3-azido-3-deoxy-β-D-ribofuranosyl)-2(1H)-pyridinone is a purine nucleoside analog. Purine nucleoside analogs have broad antitumor activity targeting indolent lymphoid malignancies. Anticancer mechanisms in this process rely on inhibition of DNA synthesis, induction of apoptosis, etc<sup>[1]</sup>. 5-Nitro-1-(3-azido-3-deoxy-β-D-ribofuranosyl)-2(1H)-pyridinone is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.

### REFERENCES

[1]. Robak T, Robak P. Purine nucleoside analogs in the treatment of rarer chronic lymphoid leukemias. *Curr Pharm Des.* 2012;18(23):3373-88.

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

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