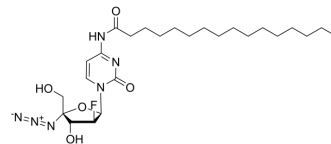


N4-(n-Palmitoyl)-4'-azido-2'-deoxy-2'-fluoro-arabinocytidine

Cat. No.:	HY-152310
Molecular Formula:	C ₂₅ H ₄₁ FN ₆ O ₅
Molecular Weight:	524.63
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

N4-(n-Palmitoyl)-4'-azido-2'-deoxy-2'-fluoro-arabinocytidine is a cytidine nucleoside analog. Cytidine analogs have a mechanism of inhibiting DNA methyltransferases (such as Zebularine, HY-13420), and have potential anti-metabolic and anti-tumor activities^[1]. N4-(n-Palmitoyl)-4'-azido-2'-deoxy-2'-fluoro-arabinocytidine 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]. Gowher H, et al. Mechanism of inhibition of DNA methyltransferases by cytidine analogs in cancer therapy. *Cancer Biol Ther.* 2004 Nov;3(11):1062-8.

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

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