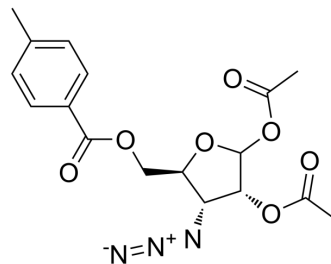


1,2-Di-O-acetyl-3-azido-3-deoxy-5-O-(4-methyl)benzoyl-D-ribofuranose

Cat. No.:	HY-154318
CAS No.:	120143-22-8
Molecular Formula:	C ₁₇ H ₁₉ N ₃ O ₇
Molecular Weight:	377.35
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

1,2-Di-O-acetyl-3-azido-3-deoxy-5-O-(4-methyl)benzoyl-D-ribofuranose 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^[1]. 1,2-Di-O-acetyl-3-azido-3-deoxy-5-O-(4-methyl)benzoyl-D-ribofuranose 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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