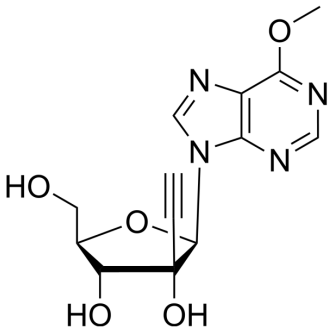
6-Mthoxy-9-beta-D-(2-C-ethynyl-ribofuranosyl) purine

Cat. No.:	HY-152663
Molecular Formula:	$C_{13}H_{14}N_4O_5$
Molecular Weight:	306.27
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	6-Mthoxy-9-beta-D-(2-C-ethynyl-ribofuranosyl) purine 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]. 6-Mthoxy-9-beta-D-(2-C-ethynyl-ribofuranosyl) purine is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

REFERENCES

[1]. Virág L, Szabó C. Purines inhibit poly(ADP-ribose) polymerase activation and modulate oxidant-induced cell death. FASEB J. 2001 Jan;15(1):99-107.

[2]. Saugstad OD. Hypoxanthine as an indicator of hypoxia: its role in health and disease through free radical production. Pediatr Res. 1988 Feb;23(2):143-50.

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

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