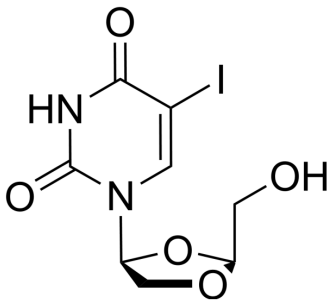
L-I-OddU

Cat. No.:	HY-148170
CAS No.:	207920-87-4
Molecular Formula:	$C_8H_9IN_2O_5$
Molecular Weight:	340.07
Target:	Nucleoside Antimetabolite/Analog; EBV; DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-I-OddU, a L-5'-halo- dioxolane nucleoside analogue, is a potent and selective anti-Epstein-Barr virus (EBV) agent with an EC_{50} value of 0.03μM. L-I-OddU has low cytotoxicity with a CC_{50} value of 1000 nM. L-I-OddU has antiviral activity by suppressing replicative EBV DNA and viral protein synthesis[1][2].
In Vitro	L-I-OddU (1 μM; H1 cells) inhibits Epstein-Barr virus (EBV) replication and decreases the linear form of EBV DNA[1]. L-I-OddU (0.25-2 μM; 24 h; H1 and L5 cells) has a major metabolite is L-I-OddUMP and increases the amount of the mono- and diphosphate metabolites formed in H1 cells in a dose-dependent manner[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kira T, et, al. Anti-Epstein-Barr virus (EBV) activity of beta-L-5-iododioxolane uracil is dependent on EBV thymidine kinase. Antimicrob Agents Chemother. 2000 Dec;44(12):3278-84.

[2]. Focher F, et, al. Antivirals at the mirror: the lack of stereospecificity of some viral and human enzymes offers novel opportunities in antiviral drug development. Curr Drug Targets Infect Disord. 2003 Mar;3(1):41-53.

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