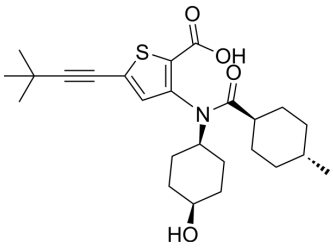
cis-Lomibuvir

Cat. No.:	HY-114571
CAS No.:	1026785-59-0
Molecular Formula:	$C_{25}H_{35}NO_4S$
Molecular Weight:	445.61
Target:	DNA/RNA Synthesis; HCV
Pathway:	Cell Cycle/DNA Damage; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

cis-Lomibuvir (cis-VX-222) is the cis-isomer of Lomibuvir. Lomibuvir (VX-222), a selective, non-nucleoside polymerase inhibitor, targets thumb pocket 2 of the HCV NS5B polymerase (RdRp) with a K_d of 17 nM. Lomibuvir inhibits the 1b/Con1 HCV subgenomic replicon with an EC_{50} of 5.2 nM. Lomibuvir preferentially inhibits elongative RNA synthesis rather than de novo-initiated RNA synthesis[1]. cis-Lomibuvir 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]. Yi G, Deval J, et al. Biochemical study of the comparative inhibition of hepatitis C virus RNA polymerase by VX-222 and filibuvir. Antimicrob Agents Chemother. 2012;56(2):830-837.

[2]. Li P, Dorsch W, et al. Discovery of Novel Allosteric HCV NS5B Inhibitors. 2. Lactam-Containing Thiophene Carboxylates. ACS Med Chem Lett. 2017;8(2):251-255. Published 2017 Jan 31.

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