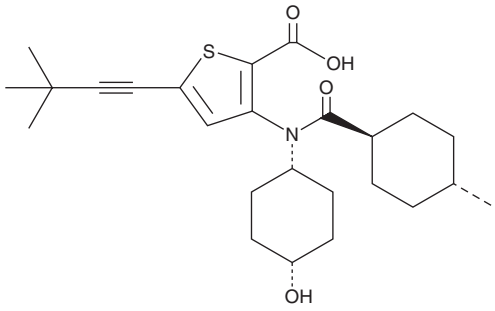
PRODUCT INFORMATION

Lomibuvir

Item No. 26630

CAS Registry No.:	1026785-59-0
Formal Name:	5-(3,3-dimethyl-1-butyn-1-yl)-3-[(*cis*-4-hydroxycyclohexyl)[(*trans*-4-methylcyclohexyl)carbonyl]amino]-2-thiophenecarboxylic acid
Synonym:	VX-222
MF:	$C_{25}H_{35}NO_4S$
FW:	445.6
Purity:	≥98%
UV/Vis.:	λ_{max}: 212, 299 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Lomibuvir is supplied as a crystalline solid. A stock solution may be made by dissolving the lomibuvir in the solvent of choice, which should be purged with an inert gas. Lomibuvir is soluble in the organic solvent DMSO at a concentration of approximately 30 mg/ml.

Description

Lomibuvir is a non-nucleoside inhibitor of the RNA-directed RNA polymerase of hepatitis C virus (HCV; K_i = 17 nM) that inhibits primer-dependent RNA synthesis selectively over *de novo* RNA synthesis.[1] It inhibits HCV replication in Huh7.5 cells expressing the 1b/Con1 HCV subgenomic replicon (EC_{50} = 5 nM).

Reference

1. Yi, G., Deval, J., Fan, B., *et al.* Biochemical study of the comparative inhibition of hepatitis C virus RNA polymerase by VX-222 and filibuvir. *Antimicrob. Agents Chemother.* **56(2)**, 830-837 (2012).

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