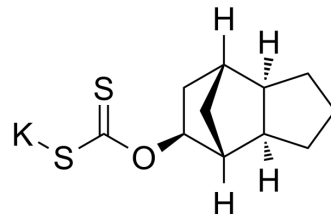


SPK-601

Cat. No.:	HY-70083		
CAS No.:	1096687-52-3		
Molecular Formula:	C ₁₁ H ₁₅ KOS ₂		
Molecular Weight:	266.46		
Target:	Phospholipase; Reverse Transcriptase		
Pathway:	Metabolic Enzyme/Protease; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 1 mg/mL (3.75 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
1 mM		3.7528 mL	18.7642 mL	37.5285 mL
5 mM		---	---	---
10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

SPK-601 (LMV-601) is an inhibitor of the phosphatidylcholine-specific phospholipase C (PC-PLC). SPK-601 also can be used as an antimicrobial agent^[1].

IC₅₀ & Target

PC-PLC^[1]

In Vitro

SPK-601 (72 hours; HPV-31 cells) displays a dose dependent inhibitory effect on cell growth (IC₅₀ of 16 µg/mL), and inhibits HPV-31 specific RNA expression and DNA replication^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[2]

Cell Line: 9E human papilloma virus (HPV)-31 infected cervical epithelial cells

Concentration:

Incubation Time:	72 hours
Result:	A dose dependent inhibitory effect on cell growth.

REFERENCES

[1]. Walker K. Interscience Conference on Antimicrobial Agents and Chemotherapy - 50th Annual Meeting - Research on Promising New Agents: Part 1. *Drugs*. 2010 Nov;13(11):743-5.

[2]. E. Amtmann, et al. Inhibition of high risk HPV-31 in human cervical epithelial cells in vitro by the PC-PLC inhibitor LMV-601. *ICID*, March 2010, 14: e465.

Caution: Product has not been fully validated for medical applications. For research use only.

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