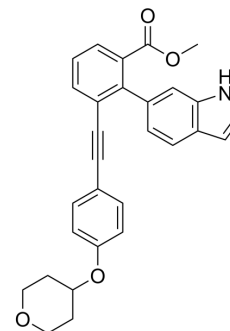


VK-1727

Cat. No.:	HY-125471		
Molecular Formula:	C ₂₉ H ₂₅ NO ₄		
Molecular Weight:	451.51		
Target:	EBV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (221.48 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.2148 mL	11.0740 mL	22.1479 mL
		5 mM		0.4430 mL	2.2148 mL	4.4296 mL
10 mM		0.2215 mL	1.1074 mL	2.2148 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.54 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.54 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	VK-1727 is a selective small molecule inhibitor of EBNA1. VK-1727 can reduce EBNA1 DNA binding activity. VK-1727 selectively blocks the proliferation and metabolic activity of EBV+ cells, instead of EBV- cells. VK-1727 is used in multiple sclerosis research ^[1] .	
In Vitro	VK-1727 (25 μM, 72 h) significantly decreases the total population of G2 cell in EBV+ cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cycle Analysis ^[1]	
	Cell Line:	EBV- B cell lines; EBV+ SLCLs
	Concentration:	25 μM

Incubation Time:	72 hours
Result:	Significantly decreased the total population of G2 cell in EBV+ cells (HC1-2, SMS1-3 and AMS1-4) and not observed on EBV- (Ramos and BJAB) B cells.

REFERENCES

[1]. Monaco MCG, et al. EBNA1 Inhibitors Block Proliferation of Spontaneous Lymphoblastoid Cell Lines From Patients With Multiple Sclerosis and Healthy Controls. *Neurol Neuroimmunol Neuroinflamm.* 2023 Aug 10;10(5):e200149.

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

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