

VK-1727

## Chemical Properties

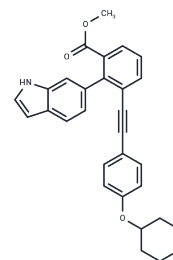
CAS No. :

Formula: C<sub>29</sub>H<sub>25</sub>N<sub>3</sub>O<sub>4</sub>

Molecular Weight: 451.51

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	VK-1727, a selective small molecule inhibitor of EBNA1, reduces the DNA binding activity of EBNA1 while simultaneously restricting the proliferation and metabolic activity of EBV-positive cells, it does so without influencing the viability of EBV-negative cells, thereby demonstrating specificity. VK-1727 is primarily employed in researches that focus on multiple sclerosis, in which it serves as a tool compound to interrogate EBNA1-mediated mechanisms in disease-related processes.
Targets(IC50)	Antifection,DNA
In vitro	<b>Methods:</b> EBV+ cells were treated with VK-1727 (25 μM, 72 hours), and the cell cycle was analyzed by flow cytometry. <b>Results:</b> VK-1727 significantly reduced the total number of G2-phase cells in EBV+ cells (HC1-2, SMS1-3, and AMS1-4), while no similar effect was observed in EBV- cells. [1]

## Solubility Information

Solubility	DMSO: 80 mg/mL (177.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.31 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.2148 mL	11.074 mL	22.1479 mL
5 mM	0.443 mL	2.2148 mL	4.4296 mL
10 mM	0.2215 mL	1.1074 mL	2.2148 mL
50 mM	0.0443 mL	0.2215 mL	0.443 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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.

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