

Product Data Sheet

CMX001

Cat. No.:	B1089
CAS No.:	444805-28-1
Formula:	C ₂₇ H ₅₂ N ₃ O ₇ P
M.Wt:	561.69
Synonyms:	
Target:	Microbiology & Virology
Pathway:	CMV
Storage:	Store at -20°C

Solvent & Solubility

insoluble in DMSO; insoluble in H₂O; insoluble in EtOH

In Vitro	Preparing Stock Solutions	Mass		1mg	5mg	10mg
		Solvent	Concentration			
		1 mM	5 mM			
		1.7803 mL	8.9017 mL	1.7803 mL	3.5607 mL	17.8034 mL
		0.3561 mL	1.7803 mL	0.8902 mL	1.7803 mL	
		0.1780 mL				

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

Biological Activity

Shortsummary	Broad spectrum antiviral drug	
IC ₅₀ & Target		
In Vitro	Cell Viability Assay	
	Cell Line:	Human fetal brain SVG cells
	Preparation method:	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
	Reacting conditions:	0.01, 0.03, 0.07, 0.1, and 1 µM, 96 h

	Applications:	CMX001 caused a dose-dependent decrease in the number of JCV-infected cells during initial infection. In addition, CMX001 treatment resulted in a dose-dependent decrease in the number of JCV genome copies present in infected cells.
Animal experiment		
	Animal models:	4-6 week-old female A/Ncr mice
	Dosage form:	Oral administration, 10 mg/kg on day 0 and 2.5 mg/kg every other-day
In Vivo	Applications:	Treating mice with CMX001 at a 10 mg/kg dose followed by 2.5 mg/kg doses every other-day for two weeks provided solid protection against mortality and weight loss following an intra-nasal challenge of ectromelia virus.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Jiang Z G, Cohen J, Marshall L J, et al. Hexadecyloxypropyl-cidofovir (CMX001) suppresses JC virus replication in human fetal brain SVG cell cultures[J]. Antimicrobial agents and chemotherapy, 2010, 54(11): 4723-4732.
- [2]. Parker S, Touchette E, Oberle C, et al. Efficacy of therapeutic intervention with an oral ether-lipid analogue of cidofovir (CMX001) in a lethal mousepox model[J]. Antiviral research, 2008, 77(1): 39-49.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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