



上海源叶生物科技有限公司
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产品名称: **BRINCIDOFOVIR**

CAS 号: **444805-28-1**

产品货号: **T43918**

生物活性:					
Description	Brincidofovir (CMX001), the lipid-conjugated prodrug of Cidofovir, is an orally available, long-acting antiviral. Brincidofovir shows activity against a broad spectrum of DNA viruses including cytomegalovirus (CMV), adenovirus (ADV), varicella zoster virus, herpes simplex virus, polyomaviruses, papillomaviruses, poxviruses, and mixed double-stranded DNA virus infections. Brincidofovir, an oral antiviral in late stage development, has proven effective against orthopoxviruses in vitro and in vivo[1][2][3][4].				
IC50 & Target	EC50: 5.5 nM (anti-CMV, in PDA at 7 dpi)				
In Vivo	Brincidofovir (BCV) (20 mg/kg; 口服; 在第 1、3、5、7、10、14、17、21 和 24 天) 延长 IHD-J-Luc VACV 处理的免疫缺陷 BALB/c nu/nu 小鼠的存活期[3]。 Animal Model: BALB/c nu/nu mice (infected with IHD-J-Luc VACV)[3] Dosage: 20 mg/kg Administration: P.o.; on days 1, 3, 5, 7, 10, 14, 17, 21, and 24 Result: On days 1, 3, and 5 maintained their weights initially but started to lose weight beginning on day 9 and succumbed between days 24 and 29 postchallenge.				
Solvent&Solubility	细胞实验: 0.1 M NaOH 中的溶解度 : 50 mg/mL (89.02 mM; 超声助溶) DMSO 中的溶解度 : 1 mg/mL (1.78 mM; adjust pH to 8 with NaOH and heat to 50° C; 吸湿的 DMSO 对产品的溶解度有显著影响, 请使用新开封的 DMSO)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	1.7803 mL	8.9017 mL	17.8034 mL
		5 mM	0.3561 mL	1.7803 mL	3.5607 mL
		10 mM	0.1780 mL	0.8902 mL	1.7803 mL
* 请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。					
参考文献	[1]. Hiwarkar P, et al. Brincidofovir is highly efficacious in controlling adenoviremia in pediatric recipients of hematopoietic cell transplant. Blood. 2017;129(14):2033-2037. [2]. Detweiler CJ, et al. Brincidofovir (CMX001) Toxicity Associated With Epithelial Apoptosis and Crypt Drop Out in a Hematopoietic Cell Transplant Patient: Challenges in Distinguishing Drug Toxicity From GVHD. J Pediatr Hematol Oncol. 2018;40(6):e364-e368. [3]. Zaitseva M, McCullough KT, Cruz S, et al. Postchallenge administration of brincidofovir protects healthy and immune-deficient mice reconstituted with limited numbers of T cells from lethal challenge with IHD-J-Luc vaccinia virus. J Virol. 2015;89(6):3295-3307. [4]. Scott A Foster , et al. The Role of Brincidofovir in Preparation for a Potential Smallpox Outbreak. Viruses. 2017 Oct 30;9(11):320.				
完整储备液配制表: 请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失					



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效。

储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。

可选溶剂	质量 溶剂体积 浓度	1 mg	5 mg	10 mg	25 mg
DMSO / 0.1 M NaOH	1 mM	1.7803 mL	8.9017 mL	17.8034 mL	44.5085 mL
0.1 M NaOH	5 mM	0.3561 mL	1.7803 mL	3.5607 mL	8.9017 mL
	10 mM	0.1780 mL	0.8902 mL	1.7803 mL	4.4509 mL
	15 mM	0.1187 mL	0.5934 mL	1.1869 mL	2.9672 mL
	20 mM	0.0890 mL	0.4451 mL	0.8902 mL	2.2254 mL
	25 mM	0.0712 mL	0.3561 mL	0.7121 mL	1.7803 mL
	30 mM	0.0593 mL	0.2967 mL	0.5934 mL	1.4836 mL
	40 mM	0.0445 mL	0.2225 mL	0.4451 mL	1.1127 mL
	50 mM	0.0356 mL	0.1780 mL	0.3561 mL	0.8902 mL
	60 mM	0.0297 mL	0.1484 mL	0.2967 mL	0.7418 mL
	80 mM	0.0223 mL	0.1113 mL	0.2225 mL	0.5564 mL
	5 mM	0.3561 mL	1.7803 mL	3.5607 mL	8.9017 mL