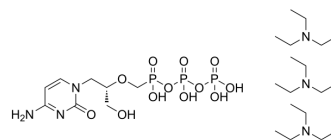


Cidofovir diphosphate tri(triethylamine)

Cat. No.:	HY-131606B
Molecular Formula:	C ₂₆ H ₆₁ N ₆ O ₁₂ P ₃
Molecular Weight:	742.72
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 125 mg/mL (168.30 mM; Need ultrasonic)					
	DMSO : 125 mg/mL (168.30 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.3464 mL	6.7320 mL	13.4640 mL
5 mM			0.2693 mL	1.3464 mL	2.6928 mL	
	10 mM		0.1346 mL	0.6732 mL	1.3464 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 12.5 mg/mL (16.83 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Cidofovir diphosphate tri triethylamine is an active intracellular metabolite of Cidofovir. Cidofovir diphosphate tri triethylamine is a selective inhibitor of viral DNA polymerases with K _i values of 6.6, 0.86 and 1.4 μM for HCMV, HSV-1 and HSV-2 DNA polymerase, respectively ^{[1][2]} .
In Vitro	Cidofovir diphosphate tri triethylamine (0-1000 μM) inhibits HCMV, HSV-1, HSV-2, human α, human β and human γ DNA polymerase with K _i values of 6.6, 0.86, 1.4, 51, 520 and 300 μM, respectively ^[1] . Cidofovir diphosphate tri triethylamine (0.3-30 μM) inhibits vaccinia virus DNA polymerase with a K _m value of 23 μM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hitchcock MJM, et al. Cidofovir, a New Agent with Potent Anti-Herpesvirus Activity. 1996.

[2]. Magee WC, et al. Mechanism of inhibition of vaccinia virus DNA polymerase by cidofovir diphosphate. Antimicrob Agents Chemother. 2005 Aug;49(8):3153-62.

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

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