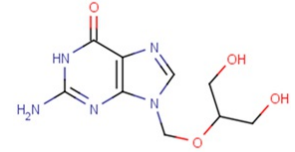


Data Sheet (Cat.No.T0688)

Ganciclovir

Chemical Properties

CAS No.:	82410-32-0
Formula:	C ₉ H ₁₃ N ₅ O ₄
Molecular Weight:	255.23
Appearance:	Solid
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Ganciclovir is an ACYCLOVIR analog that is a potent inhibitor of the Herpesvirus family including cytomegalovirus. Ganciclovir is used to treat complications from AIDS-associated cytomegalovirus infections.
Targets(IC ₅₀)	FHV-1: 5.2μM
In vivo	In adult rats, the intracochlear diffusion of ganciclovir is shown to achieve the same concentration as in blood. In gestating mice, transplacental diffusion is observed, with a fetal-to-maternal blood ratio of 0.5. In newborn mice, the plasma concentration profile of ganciclovir shows a peak at 2 h followed by a gradual decrease. In adult mice, the concentration peaked at 1 h, but becomes undetectable by 2 h after injection. Counts of white blood cells, red blood cells and platelets decreases significantly in ganciclovir-treated newborn mice[7].
Animal Research	Animal Model: Mouse

Solubility Information

Solubility	DMSO: 50 mg/mL (195.9 mM) Ethanol: <1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.918 mL	19.59 mL	39.18 mL
5 mM	0.784 mL	3.918 mL	7.836 mL
10 mM	0.392 mL	1.959 mL	3.918 mL
50 mM	0.078 mL	0.392 mL	0.784 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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