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TECHNICALLY *Speaking*

Place your order with CEDARLANE® or your local distributor.

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Ganciclovir (GCV)

CLSYN001
CLSYN001-2
CLSYN001-3
Lot: 107GCV01

Description: Ganciclovir (GCV) is a pro-drug nucleoside analog that is activated by phosphorylation. It is useful in the study of gene therapy in cancer research. Upon expression of a viral suicide gene encoding thymidine kinase, the non-toxic pro-drug is converted to a phosphorylated active analog and is incorporated into the DNA of replicating eukaryotic cells, causing death of the malignant dividing cell. The cell cycle is irreversibly arrested at the G2-M checkpoint. Gap junction involvement in the ganciclovir bystander effect has been studied. Ganciclovir has been used to study loss of telomeres and to evaluate sensitivity of viruses to antiviral treatments. Ganciclovir is a white to off-white crystalline powder with a molecular formula of $C_9H_{13}N_5O_4$ and a molecular weight of 255.23. Ganciclovir is used in molecular biology for selection against random recombination events when homologous recombination of a gene of interest is required.

Presentation: 100 mg (CLSYN001), 500 mg (CLSYN001-2), or 1000 mg (CLSYN001-3), sterile filtered white lyophilized (freeze-dried) powder.

Solubility: It is recommended to reconstitute the lyophilized GCV in sterile 18MΩ-cm H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized GCV although stable at room temperature for 3 weeks, should be stored at 4°C.

Purity: Greater than 99.0%.

Laboratory Reagent For Research Use Only

JV 06/26/08

For more information or to place an order please contact...

CEDARLANE®
LABORATORIES LIMITED



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