

Cat # ABT-520-050  
Cat # ABT-520-001  
General Information

Ganciclovir (Pharma Grade)  
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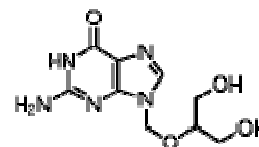
Size: 500 g  
Size: 100 mg

Ganciclovir is used in molecular biology for selection against random recombination events when homologous recombination of a gene of interest is required.

Ganciclovir 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.<sup>5</sup>

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Molecular Formula:

$C_9H_{13}N_5O_4$

Molecular Weight:

255.23g/mol

**assay** ≥99% (HPLC)  
**form** powder  
**color** white  
**EQP level** [Premium](#)  
**solubility** 0.1 M HCl: soluble 10 mg/mL  
**abs.** ε1mM/256 nm 12.0  
**storage temp.** 2-8°C

**ABT-520-001**

**110517AO**

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