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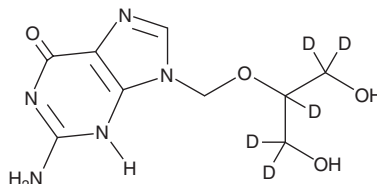
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PRODUCT INFORMATION



Ganciclovir-d₅ Item No. 22565

CAS Registry No.: 1189966-73-1
Formal Name: 2-amino-9-[(1,1,2,3,3-pentadeuterio-1,3-dihydroxypropan-2-yl)oxymethyl]-1H-purin-6-one
Synonym: 2'-Nor-2'-deoxyguanosine-d₅
MF: C₉H₈D₅N₅O₄
FW: 260.3
Chemical Purity: ≥95% (Ganciclovir)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₅); ≤1% d₀
Supplied as: A solid
Storage: 2-8°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Ganciclovir-d₅ is intended for use as an internal standard for the quantification of ganciclovir (Item No. 13853) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Description

Ganciclovir is a synthetic analog of 2'-deoxy-guanosine that inhibits the replication of human cytomegalovirus (CMV) with an IC₅₀ value of 0.01 μM.^{1,2} It is effective against strains of CMV from human, monkey, mouse, and guinea pig.^{1,2} Formulations containing ganciclovir have been used to treat or prevent CMV infections.^{3,4}

References

1. Rasmussen, L., Chen, P.T., Mullenax, J.G., *et al.* Inhibition of human cytomegalovirus replication by 9-(1,3-dihydroxy-2-propoxymethyl)guanine alone and in combination with human interferons. *Antimicrob. Agents Chemother.* **26**(4), 441-445 (1984).
2. Freitas, V.R., Smee, D.F., Chernow, M., *et al.* Activity of 9-(1,3-dihydroxy-2-propoxymethyl)guanine compared with that of acyclovir against human, monkey, and rodent cytomegaloviruses. *Antimicrob. Agents Chemother.* **28**(2), 240-245 (1985).
3. Balfour, H.H., Jr. Management of cytomegalovirus disease with antiviral drugs. *Rev. Infect. Dis.* **12**(Suppl. 7), S849-S860 (1990).
4. Bean, B. Antiviral therapy: Current concepts and practices. *Clin. Microbiol. Rev.* **5**(2), 146-182 (1992).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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