

Zalcitabine

Catalog No: tcsc1110



Available Sizes

Size: 50mg

Size: 100mg



Specifications

CAS No:

7481-89-2

Formula:

$C_9H_{13}N_3O_3$

Pathway:

Anti-infection;Anti-infection

Target:

Reverse Transcriptase;HIV

Purity / Grade:

>98%

Solubility:

DMSO : 16.67 mg/mL (78.92 mM; Need ultrasonic and warming)

Alternative Names:

ddC; Dideoxycytidine; 2',3'-Dideoxycytidine

Observed Molecular Weight:

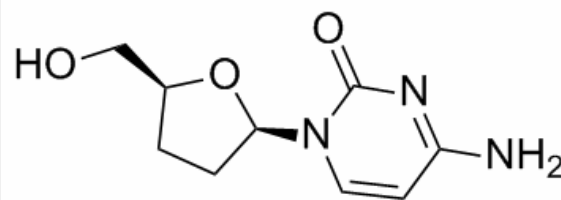
211.22

Product Description

Zalcitabine is a potent nucleoside analogue reverse transcriptase inhibitor used in the treatment of **HIV** infection.

IC50 & Target: Target: HIV

In Vitro: Zalcitabine is a dideoxynucleoside antiretroviral agent that is phosphorylated to the active metabolite 2',3'-dideoxycytidine 5'-triphosphate (ddCTP) within both uninfected and HIV-infected cells. At therapeutic concentrations, ddCTP inhibits HIV replication by inhibiting the enzyme reverse transcriptase and terminating elongation of the proviral DNA chain^[1]. Zalcitabine exhibits the inhibition effect on the cellular uptake of [3H]-PAH in CHO/hOAT1 cells with an IC₅₀ value of 1.23 mM. Furthermore, the cellular uptake of zalcitabine increased threefold with the enhancement of hOAT1 activity in CHO/hOAT1 cells^[2].



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