Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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.

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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 IC_{50} value of 1.23 mM. Furthermore, the cellular uptake of zalcitabine increased threefold with the enhancement of hOATI activity in CHO/hOAT1 cells[2].